MAHARISHI UNIVERSITY OF MANAGEMENT

CATALOG

2008–2009

Undergraduate and Graduate Programs

Fairfield, Iowa

Higher Consciousness and Professional Excellence
Letters of inquiry about Maharishi University of Management should be addressed to:

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Fairfield, Iowa 52557

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The University reserves the right to change, at any time, without prior notice, programs of study, course offerings, academic requirements, the academic calendar, codes of student conduct, tuition, room and board charges, and other fees, policies, and procedures. The University will determine the times at which all such changes are effective. Changes may apply not only to prospective students but also to those who are already enrolled in the University.

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Maharishi University of Management makes available to the public, upon request, all consumer information required by the Office of Education Rules and Regulations. Consumer information about the University includes, but is not limited to, the following: academic programs, educational costs, financial aid, academic progress requirements, student retention rates, and crime statistics. This information is available from the
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Category I
Name, address, telephone number, dates of attendance, class

Category II
Major field of study, awards, honors (including Dean’s List), degree(s) conferred (including dates), previous institution(s) attended

Category III
Past and present participation in officially recognized sports and activities, physical factors (height, weight of athletes), date and place of birth

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Message from the Founder

“If we look into the process of gaining knowledge we find there are two sides to knowledge: the object of knowledge, that which we seek to know, and the subject of knowledge, the knower. What the present system of education provides is knowledge of the object; what it misses is knowledge of the subject, knowledge of the knower in the knower’s infinite capacity. When the knower is ignorant about the Self, the whole structure of knowledge is as if baseless.

“Education at Maharishi University of Management enlivens in every student’s awareness the common basis of knower and known, the Unified Field of Natural Law. Every part of knowledge is connected with the whole discipline, and the whole discipline with the Unified Field of Natural Law, which students experience directly as the deepest level of their own intelligence during the practice of my Transcendental Meditation® program.

“As a result of this educational approach, students grow in the awareness that all streams of knowledge are but modes of their own intelligence. They come to feel at home with everyone and everything. Their creative genius blossoms with increasing confidence and self-sufficiency. They cease to violate Natural Law, and grow in the ability to accomplish anything and spontaneously to think and act free from mistakes — the fruit of all knowledge.” — His Holiness Maharishi Mahesh Yogi, who founded the University in 1971, and who opened the gateway of enlightenment to millions of people over the past 50 years

Message from the President

Maharishi University of Management was founded by His Holiness Maharishi Mahesh Yogi in 1971 to make education complete, so that every student enjoys great success and fulfillment in life. By integrating professional excellence and development of higher consciousness, education at the University unfolds the creative genius of its students, and prepares them to be leaders of their nations, competent to create a prosperous, progressive, and peaceful world.

The University’s unique Consciousness-Based℠ system of education has also created a high quality of life on campus, full of happiness, harmony, and enthusiasm for knowledge, and free of the problems and stress that trouble other universities throughout the world.
The University is fortunate to have highly qualified faculty and bright, focused students who have come from more than 90 countries and almost every state of the United States. The University faculty achievements in research, publication, and grants, and the achievements of graduates in business and professional careers are outstanding; their positive impact on society is remarkable.

In addition, the University has founded a school, Maharishi School of the Age of Enlightenment, which many feel is the best primary and secondary school in the world, as measured both by the students’ academic achievements, and by their happiness and highly enlightened consciousness and behavior.

Most important of all, the University through its Golden Domes has continually for 25 years now created coherence in the collective consciousness of the United States, generating waves of positivity, harmony, and peace for the whole nation and the world.

As president of this University, I can only be proud of the dedicated, brilliant, and highly idealistic individuals who have made all these achievements possible. Throughout all the golden times ahead for humanity, Maharishi University of Management will always be the place to which students from every nation can come to rise to leadership of the world enjoying Heaven on Earth.

We look forward to welcoming you at Maharishi University of Management. It is a University worthy of the great name it bears, the name of its founder, Maharishi.

— Dr. Bevan Morris
INTRODUCTION TO THE UNIVERSITY

THE MISSION OF THE UNIVERSITY

Maharishi University of Management was founded in 1971 by His Holiness Maharishi Mahesh Yogi to fulfill the highest ideals of education. Foremost among these ideals is to help students develop the ability to think and act in harmony with their environment and to live a fulfilled life.

The University has pioneered a unique system of higher education based on developing students’ full alertness and creative intelligence — the foundation of learning. This system integrates the content of traditional discipline-based education with knowledge and technologies for developing students’ mental potential. At the foundation of this system is the practice by students, faculty, and administrators of systematic and scientifically verified techniques to develop the full potential of human consciousness.

Through programs that give students a traditional education while cultivating the holistic growth of consciousness, mind and body, the University offers students the skills needed to manage their lives effectively, to lead lives characterized by health and wisdom, and to achieve both personal and professional success and fulfillment in all areas of life.

The University’s unique educational programs are designed to fulfill a commitment to four broad areas of responsibility:
• To achieve educational excellence
• To promote the holistic development of our students: consciousness, mind, and body
• To conduct original research and extend the frontiers of knowledge
• To improve the quality of life for the individual, the nation, and the world.

PURPOSES AND OUTCOMES

The University meets its goals of developing educational excellence and improving the quality of life principally by helping students achieve specific outcomes during their academic programs. Three of these outcomes are the basis of institutional assessment.

Self-Development
Development of consciousness means developing the innermost nature of the individual. The University’s program of education systematically develops students’ intelligence, nourishing and unfolding all aspects of life simultaneously — mind, body, behavior, and environment. The individual grows in personal fulfillment and professional success and brings increasing fulfillment to society.

The outcomes of developing creative intelligence that the University expects of its students over the course of their academic careers include increased intelligence and
creativity; improved health (mental, physical, and social); increased field independence and moral maturity; increased problem-solving ability, improved speaking and writing ability; greater self-actualization, self-esteem, personal identity, emotional health, and ego development; increased problem-solving ability, improved speaking and writing ability; greater self-actualization, self-esteem, personal identity, emotional health, and ego development; increased neurophysiological integration; and the experience of greater inner wakefulness.

**Ability to Integrate New Knowledge Effectively in Any Field and Profession**

The University’s unique approach to education enables students to feel increasingly comfortable with all fields of knowledge — to recognize the interconnections among fields of knowledge and the connection between knowledge and themselves. The University also expects that all students will acquire intellectual skills and capacities; understand multiple modes of inquiry and approaches to knowledge; and develop societal, civic, and global knowledge.

**Scholarship and Service**

In addition to the educational outcomes cited above, the University will develop new knowledge through research and will disseminate that knowledge through publication of scholarly works. In disseminating its knowledge, the University will also assist other educational organizations, nationally and internationally, whose purposes are consistent with the University’s mission. The primary responsibility for scholarship and service lies with the University’s faculty. Their progress is assessed in terms of their contributions to peer-reviewed publications, to the University’s own publications, and to the development of curricula and instructional materials.

**ABOUT THE UNIVERSITY**

Maharishi University of Management is accredited by The Higher Learning Commission and is a member of the North Central Association (www.ncacihe.org, (312) 263-0456), the oldest and largest accrediting organization in the U.S. In addition, the University, through the Department of Business Administration, has the following degree programs accredited by the International Assembly for Collegiate Business Education (P.O. Box 25217, Overland Park, KS 66225, (913) 383-6205): Ph.D. in Management, Master of Business Administration, and Bachelor of Arts in Management.

Academic programs include Ph.D., master’s, and bachelor’s programs in a range of disciplines, including Ph.D. programs in Management and Maharishi Vedic ScienceSM. Students come from almost every state and over 90 countries, including Canada, China, Russia, India, Turkey, Kenya, Brazil, Mexico, many Caribbean countries, Australia, Germany, France, Great Britain, and the Scandinavian countries; they represent nearly every culture, race, and religion in the world. The student body is a world family, living in peace and harmony, excited about knowledge, openhearted and friendly, and dedicated to making the world a better place.

The faculty includes internationally recognized scholars and researchers with degrees from such universities as Oxford, Harvard, Stanford, Princeton, and Yale.
Graduates are successful in careers in business, education, the arts, and the sciences. Many have founded their own companies or have been hired by leading corporations such as American Express, AT&T, Bell Labs, Apple Computer, Citibank, Ford, Hewlett-Packard, IBM, Motorola, and Xerox.

The Maharishi University of Management campus is located in Fairfield, Iowa, 50 miles west of the Mississippi River in the central U.S. The 262-acre campus, with 1.2 million square feet of teaching, research, recreational, and living space, is situated on gently rolling hills.

Maharishi University of Management is respected for its excellence in education, its healthy and harmonious environment, and its high quality of life. It is unique in adding to traditional education systematic programs to develop the full potential of the student. Our students make rapid progress, not only in academic achievement, but also in developing their creativity, intelligence, and good health.
ACADEMIC PROGRAMS

THE FIRST-YEAR PROGRAM

The first-year program at Maharishi University of Management provides a unique vision, a completely original angle, on how to approach and succeed in life. We ground our curriculum in a vision of human potential that includes higher states of consciousness, and in an understanding of the fundamental unity of life. Our program provides not only intellectual understanding of this new vision, but also technologies for realizing this vision. These two together, intellectual understanding and the experience of personal growth, lead to a most fulfilling and productive life.

Profound intellectual awakening and growth of consciousness deepen with each year at the University. But the first year at Maharishi University of Management is especially important in this transformation. It consists of a sequence of courses that introduces the core curriculum of the University, develops effective thinking, research, speaking, writing, and teamwork skills, and exposes the student to a remarkable breadth and depth of knowledge in this first year.

Besides other course work, students who are enrolled in the first-year program receive instruction in Self-Pulse Assessment, or Maharishi Nadi Vigyan. This simple and profound technology from Maharishi Consciousness-Based Health Care\textsuperscript{SM} allows the individual to accurately assess the level of balance of the whole physiology. The pulse contains the level of functioning of the three fundamental principles of intelligence governing the physiology: the principle of movement and communication; the principle of transformation and metabolism; and the principle of structure and cohesion. The goal is for the students to be able to measure the basic level of balance, which can then guide their dietary choices and daily routine to maintain balance and vitality.

COURSES

FOR 101 Science and Technology of Consciousness
The students begin their study with The Science and Technology of Consciousness. This course explores the full range of consciousness, which is the basis of all courses at Maharishi University of Management. Consciousness is defined differently at Maharishi University of Management than it is usually defined at other universities. Here consciousness is understood as having a universal and individual value. The purpose of this course is to understand the full range of consciousness; what it practically means to students; and how the experience of consciousness can help each student to become the person he or she wishes to be.
ESS 101 Health and Fitness Practicum: Physical Activity to Promote Longevity and Fitness for Life
In this innovative and unique course, students exercise daily, chart their activities, and report their achievement at the end of each month. Each year every student receives a fitness assessment and a personally tailored workout program. Students are then assessed again at the end of the year. A computerized system helps students track their progress and generates a regimen of exercises.

ESS 103 Base Camp: Creating Harmony within the Diversity of Students, Faculty, and Administration
Integrated into the SCI course is a four-day retreat where students, faculty, and staff go to a wilderness area for a camping trip to help build friendships and understanding between all three groups with the goal of establishing cooperation for future endeavors. Whereas the SCI course enriches the mind and spirit with new ideas about human potential, Base Camp enriches the body and soul, with opportunities to enjoy some beautiful countryside with new friends. Activities may include canoeing, biking, and hiking, as well as learning “outdoor” skills. (1 unit)

PH 101 Physiology Is Consciousness: Awakening the Cosmic Potentiality of the Human Brain
The course will explore the new paradigm in science that the “Physiology is Consciousness.” Current concepts of mind and body will be understood in terms of this new paradigm.

The human brain is unique in the universe. The unfathomably complex fabric of the brain neuropil rivals the billions of shining galaxies. This course examines the contribution of the Vedic tradition of knowledge to our understanding of brain structure and function, and hence, the potential that lies within every individual. The exponential growth of modern scientific understanding during the last 100 years, primarily the last 50 years, has created a situation in which we have an urgent need to understand the relationship between consciousness and our physiology. This course will present our facts of brain structure and function in light of Maharishi Vedic Science and the Discovery of Veda and Vedic Literature in human physiology. We will examine how our brain constructs reality at every moment and how, from Maharishi Vedic Science, the transcendental field of life, the home of all the Laws of Nature is the source of these myriad physiological impulses seamlessly orchestrated to produce what we call human experience. We will study how the experience of unboundedness, the Self of every individual, can transform our physiology and awaken the total creative potential of the brain in enlightenment, the birthright of every human being. (4 units)

FOR 103 Health-Related Fitness: Physical Activity to Promote Longevity and Fitness for Life
This course presents the latest knowledge from Western science and the Maharishi Consciousness-Based Health Care program concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. The major focus will be on the details of the ideal routine of sleep, diet, exercise, meaningful
activity, recreation and the importance of the regular experience of pure consciousness for optimum health and evolution. This course will combine both lectures and physical activity labs. (2 credit hours)

**PHYS 110 Foundations of Physics and Cosmology: Discovery of the Unified Field and Its Practical Applications for Perfection in Life**
The course gives a deep and non-mathematical understanding of the differences between classical and quantum physics. It explains the meaning and mechanics of unification and symmetry and the main concepts of unified quantum field theories and superstring theory. It shows that at the basis of the universe lies a complete unified field, a self-interacting entity from which all particles and forces arise through the process of spontaneous symmetry breaking. The course gives students experience and understanding of the interconnectedness between the laws of physics, the universe, and themselves. (4 units)

**WTG 191 College Composition 1: Clear and Graceful Prose — Coherent Minds Expressing Themselves through Traditional Writing Forms**
This course presents students with the challenge of reconciling seemingly opposite perspectives — writing as an ongoing process of discovery and writing as the creation of a finished work. Students develop greater facility with the writing process and strengthen foundational skills. Connections between reading and writing are fostered as students read and discuss a narrative text. (4 units)

**WTG 192 College Composition 2: Exploring Academic Writing — Knowledge as the Basis of Successful Communication and Self-Expression**
This course develops students’ abilities to use language for different purposes, subjects, and audiences, focusing on both exposition and persuasion within the academic context. Students read and discuss published works that reflect the variety of thinking and writing across the disciplines. (4 units) Prerequisite: WTG 191 or appropriate assessment

**MGT 405 Cross-Cultural Communication: Being at Home Everywhere and in Every Situation — “The World Is My Family”**
Expansion of consciousness gives rise to an appreciation of the finest qualities of those around us, so we develop a natural graciousness. But in order to feel confident that we are not inadvertently making someone uncomfortable, we need to master the basic rules of etiquette. In this global age students need to understand the differences in etiquette they may encounter as their professional lives bring them into contact with other cultures. This course will explore the laws of nature underlying courteous behavior revealed by Maharishi Vedic Science. It will also cover rules of etiquette that apply in everyday interactions, special occasions, the workplace, entertaining and traveling in the United States and in other countries. Students will have an opportunity to practice what they learn not only in role-play, but also by actually preparing for and hosting a formal meal for their classmates.
Plus one course in mathematics selected from the following:

**MATH 152 Elementary Algebra: Using Variables to Manage the Total Possibility of Numbers and Solve Practical Problems**
The infinitely flexible language of algebra is used to quantify and model mathematical patterns and relationships. Topics include operations on algebraic expressions, linear equations, the coordinate plane, inequalities, factoring, and simple quadratic equations. (4 units)

**MATH 153 Intermediate Algebra: Using Variables to Manage the Total Possibility of Numbers and Solve Practical Problems**
This course extends Elementary Algebra to develop further algebraic models. Students study polynomials, rational expressions, quadratic equations, complex numbers, and graphing in the coordinate plane. (4 units) Prerequisite: MATH 152

**MATH 266 Geometry for the Artist: Applying Abstractions of Shape and Form to Create Beautiful Concrete Images**
Geometry, the study of shape and form, is an essential tool for the visual artist. Topics in this course include symmetry, Euclidean and non-Euclidean geometry, perspective and projective geometry, and fractals. Materials fee: $10 (4 units) No prerequisite

**MATH 161 Functions and Graphs I**
**MATH 162 Functions and Graphs II**
A mathematical function quantifies the relationship between two related quantities and can be used to model change. Functions and their graphs are essential to all branches of mathematics and their applications. (4 units each)
Topics 1: domain and range, average rate of change, graphs, functions (linear, exponential, logarithmic, and quadratic), and applications. Prerequisite: MATH 153
Topics 2: trigonometry, algebra of functions, compositions and inverses of functions, functions (trigonometric, power, polynomial, and rational), and applications. Prerequisite: MATH 161
GENERAL EDUCATION

Maharishi University of Management is dedicated to education that develops the whole person. Our approach to general education shares the emphasis on distribution requirements and mastery of basic competencies found at other institutions. To these we add a program that directly develops the students’ creative intelligence from within. In addition, our program emphasizes the development of health and fitness, enlightened attitudes, and progressive behavior.

SPECIAL FEATURES

• Research in Consciousness, the twice-daily practice of the Transcendental Meditation program (taken by all students throughout their education) and TM-Sidhi program (taken by all qualified students throughout their education).

• A First-Year Program, which includes required courses in the Science of Creative Intelligence®, Sanskrit and Maharishi Vedic Science, human physiology, physics, and writing.

• Separation of courses by gender whenever possible.


• An exercise program in which students are tested for their fitness at the beginning of each semester, create their own daily exercise regimen based on fitness goals for the current semester, and then are retested for progress on these goals at the end of the semester.

• A health education program that includes a required two-unit course that introduces students to the principles of proper rest, nutrition, and time-management as well as a first-year tutorial and mentoring program that helps students create good habits in these areas.

• The Rotating University Program, our study abroad option that complements our global mission by offering students the opportunity to study in foreign countries. Courses have been taught in Greece, Australia, New Zealand, Switzerland, Italy, and India. The purpose of the program is to give students the experience of other cultures in some of the world’s most beautiful locations.

• A two-unit career development and job placement seminar that all students take in their third or fourth year.
• Forest Academies, the first two weeks of each semester, which provide opportunities for more extended research in consciousness and for exploring the application of the Science of Creative Intelligence to areas ranging from the arts to the sciences.

• A Senior Capstone Forest Academy during which graduating students are assessed for general education outcomes and reflect on the growth they have experienced in their years at Maharishi University of Management.

The specific unit requirements for all these programs are listed in the Academic Policies section of the Catalog.

GENERAL EDUCATION GOALS AND THE CENTER FOR EDUCATIONAL EXCELLENCE

In order for all students to graduate having mastered our general education goals and objectives, these educational outcomes must be addressed and reinforced throughout the curriculum. We have therefore created a Center for Educational Excellence that works with the individual faculty and departments on the implementation of our general education goals and objectives in all programs and courses. This Center also oversees an assessment program that continuously monitors the progress toward achieving these goals and outcomes.

As part of the general education program, classes incorporate elements that develop

• Writing, speaking, and communication skills
• Reading, listening, and information gathering skills
• Group and independent research and work skills
• Proficiency with new technology
• Effective thinking skills
• Mathematical and scientific reasoning skills, as appropriate
• Creative imagination and problem-solving skills
• Aesthetic sensibility and experience in the arts, as appropriate
• Self-assessment skills.

All classes are organized around universal principles of the Science of Creative Intelligence course and in Vedic Science courses. In addition to the specific information and knowledge being studied in the modern disciplines, classes also develop the following understandings, as appropriate:

• Understanding of the quantum mechanical nature of reality
• Understanding the unity of all knowledge, its common source in the Unified Field of Natural Law, and its identity with the student’s own Self
• Understanding the universality of the Vedic Science model of human development as it has expressed itself in diverse world civilizations
• Understanding the mechanics, principles, practical technologies, and evidence that support the development of higher states of consciousness and success in life.
SPECIAL GENERAL EDUCATION HUMANITIES ELECTIVES

In addition to elective courses offered by the academic departments at the University, students may take any of the following courses to fulfill their general education distribution requirement in the Humanities:

**HUM 230 Rotating University in Greece: Conceptions of the Good Life in Greek Thought**
Rotating University courses offer an opportunity to study and travel abroad. This course takes place on the Greek mainland, the Greek islands, and a cruise ship on the Aegean Sea. It combines an introduction to Greek culture and history with a specific focus on virtue and the good life in Greek thought. Students tour some of the most famous historical sites in Greece — the Parthenon in Athens, the Oracle at Delphi, the palaces of the Minoan civilization on Crete — along with an opportunity to experience the charm of contemporary Greek towns and the beauty of Greek beaches. For four days, the course is on a cruise ship, which visits a number of famous Greek sites from antiquity.

The intellectual thought of ancient Greece is very rich, serving as the source of much of the Western intellectual tradition. We read original works of some of the greatest Greek writers and thinkers, from the perspective of understanding the nature of the good life. We will also discover the profound parallels between ancient Greek thought and the insights of Maharishi Vedic Science. Both intellectually and experientially, this course provides an exploration of the good life. (4-unit course — 2 units of General Education credit) (Note: The content of this course is different from “The Good Life in Western Philosophy.”)

**HUM 232 Rotating University in Southern Africa: Politics, Culture, and Natural Heritage**
This course introduces students to the complex geo-political realities of Southern Africa. The main issue addressed is how the region can make political and economic progress into the future, while preserving its rich cultural and natural heritage. Special attention is given to South Africa, where most of the time in the course will be spent, and to a new educational initiative in that country focused on educating the underprivileged and disenfranchised. Other countries studied include Botswana, Mozambique, Zimbabwe, Zambia, Namibia, Angola, Tanzania, The Democratic Republic of the Congo, and Malawi. (6 units)

**FA 231 Great Civilizations: Fulfilling the Ancient Quest for Heaven on Earth as Sought by Vedic, Chinese, Indian, Middle Eastern, African, Native American and Western Cultures**
Students explore the most inspiring creations of civilization — art, philosophy and religion — highlighting humanity’s quest for an ideal society. The course begins with the venerable Vedic civilization, which according to Vedic Literature enjoyed Heaven on Earth, continues with extraordinary videotapes, slide lectures and guest speakers on many other cultures, and concludes by examining the possibilities for creating Heaven on Earth.
today. By familiarizing students with many cultures in the light of their own consciousness, this course nurtures global citizens of the twenty-first century, at home in the world family. Topics include: Western and Vedic views of history, cultural history from prehistory to the present day, and the most widespread wisdom traditions of humanity — Taoism, Buddhism, Hinduism, Judaism, Christianity, and Islam. The course includes a 3–4 day field trip to a major cultural center. Field trip fee: $175. (4 units)
DEPARTMENT OF ART AND DESIGN

FACULTY
• James Shrosbree, M.F.A., Chair, Associate Professor of Art
• Matthew Beaufort, M.A., M.A., Associate Chair, Assistant Professor of Art
• Geoffrey Baker, A.T.D., Professor Emeritus of Art
• Dale Divoky, B.F.A., Assistant Professor of Art
• Gurdon Leete, M.F.A., Assistant Professor of Art
• Gillian Brown, M.F.A., Adjunct Assistant Professor of Art
• Gary Hearne, M.F.A., Adjunct Assistant Professor of Art
• Brian Smith, B.A., Adjunct Instructor of Art/Communications and Media

INTRODUCTION

The Department of Art and Design is dedicated to nurturing the deepest values of creative expression in our students. Students discover their own inspiration by accessing the unbounded source of creativity within themselves. The department provides a uniquely life-supporting environment in which the students’ personal inspiration can attain artistic realization. Living within this extraordinary community, students discover their artistic genius and begin to unfold their full potential.

Our arts programs are unique. They integrate practical training in studio art, profound intellectual understanding, and the progressive development of consciousness, the basis of all creativity. The fine arts are the creative self-expression of consciousness, articulating the awareness of the artist and enlivening the awareness of the audience. To realize the finest values of art, the artist and the viewer must experience the most expanded values of consciousness. While mastering the skills and knowledge of art, our students become well acquainted with consciousness and the mechanics of creativity, thereby enjoying more effortless, stress-free, and spontaneous creative expression.

The faculty support students’ enlivened creativity by encouraging them through their successes — a teaching method that strengthens the students’ natural inspiration. Our faculty, who exhibit and lecture around the country, have been recognized for excellence in both art-making and teaching. Our graduates have gone on to successful careers as artists, educators, arts administrators, designers, animators, and in video production, advertising, and Web design.

Traditionally, the arts have celebrated the most glorious possibilities for human life. The arts have articulated high ideals of beauty, harmony, and wholeness. These ideals are now becoming realities of creative expression and daily life for students at Maharishi University of Management.

Comments on Our Faculty and Students by a Visiting Evaluator
Aribert Munzner, professor emeritus at the Minneapolis College of Art and Design, observed, “The faculty is a totally dedicated, professional community that reveals
sensitivity and understanding of every student’s needs, exhibits professional competency in each of their respective areas and has demonstrated the ability to communicate in word and image the breadth and depth of not only the particular subject area under discussion, but also the skill in integrating that special discipline to the larger context of art and culture. … The students are profoundly committed, authentically motivated, genuinely curious. … They emerge into the world with the skills necessary for a career in art and even more important — as individuals with an awareness of the opportunities for positive contributions to humanity.”

Programs Offered
• Bachelor of Fine Arts (B.F.A.)
• Bachelor of Arts (B.A.) in Art and Design
• Bachelor of Arts (B.A.) in Art with an Emphasis in Music
• Minor in Art and Design
• Minor in Improvisational Dance/Movement

SPECIAL FEATURES

Students explore their creativity in the most refined fields of personal expression, mentored by accomplished faculty artists who are experts in guiding aspiring artists. Students:
• Interact with visiting artists from around the country and with established artists in the Fairfield area who have given the town a regional reputation as a center for the arts.
• Explore the greatest art of the past and present in the light of consciousness, and gain inspiration to develop their artistic genius.
• Take field trips to major cultural centers like Chicago and New York and explore the universal and unique values of consciousness expressed in the art of many cultures.
• Develop tools for self-evaluation and career development, forming the basis for professions in the arts.
• Our graduates enjoy careers as artists, educators, arts administrators, designers, animators, and in video production, advertising, and Web design.

Painting and Drawing Courses
• Explore painting and drawing as a special means to see and express one’s self in relation to the world.
• Explore the nature of painting — its forms, tools, materials, and processes.
• Develop a deep knowledge of the language of painting and the overarching visual principles that connect all forms of painting.
• Learn from in-depth interactions with faculty in small classes.

Ceramics Courses
• Relate the knowledge and experience of ceramics to the growth and evolution of one’s own consciousness.
• Develop knowledge of materials, processes, and traditions that have fostered the creation of clay pottery, sculpture, and tile.
• Work in a fully equipped studio, which allows students to develop experience with a variety of methods of working in clay — including handbuilding, wheelthrowing, and moldmaking; firing methods include low-fire, high-fire stoneware, soda, and raku.

Sculpture Courses
• Learn the underlying principles that apply to the space/mass, proportion, size, scale, and light, and the formal language that is fundamental to sculpture.
• Gain knowledge of materials, structure, and forming methods.
• Address a range of topics that include knowledge of the figure, surface possibilities in relation to form, narrative development, installation, and site-specific outdoor work in nature.
• Use facilities for plaster, clay, wood, and metal work.

Digital Media/Photography/Video
• Explore the language of sight and sound and its relation to the inner value of consciousness. Creatively apply computer, photographic, and video technologies in well-equipped digital media and photo labs.
• Become proficient in software applications for photo image editing, Web page design, video editing, video compositing, special effects, 3-D modeling, and graphic design.
• Enjoy project-oriented study that supports both fine art and commercial orientations using professional quality equipment.
• The industry demand for skilled computer artists in website design, feature films, television, advertising, photography, and graphic design offers a wide range of career possibilities for aspiring commercial artists who graduate from this program.

Digital Media Courses
• Develop a deeply interdisciplinary perspective, which prepares you for the digital, communications-intensive career world.
• Become proficient in advanced techniques in the field by interacting with computer lab software, by learning digital enhancement and manipulation, and by synthesizing photographic images.

Photography Courses
• Develop fundamental photographic skills in well-equipped facilities, which include group B/W darkroom, photo studio, film processing room, and advanced color darkroom; and learn the basic principles and techniques of digital commercial photography.

Video and Communications and Media Courses
• Explore contemporary digital techniques in video production using powerful Macintosh computers and camcorders for video and the Web. Write, direct and produce your own videos.
• Video students can take courses in photography, video production, narrative, documentary filmmaking, the history of film, computer graphics, and digital editing, and may participate in internships working at video production and design companies — preparing them for careers in the fields of film, video, animation, advertising, and Web design.
Improvisational Dance/Movement Courses

- Improvisation becomes most truthful, spontaneous and enjoyable when the mover acts from the deepest part of himself. These courses focus on building confidence, strength, flexibility, range of movement and the experience and understanding of the mechanics of the creative impulse, so that dancers or actors can explore movement in the context of themselves, music, other students, and the environment of the theater. Students examine fundamental principles of movement, performance, masque-building, the physiology of exercise, and anatomy; with the goal of developing perfection in the body-mind continuum.

Maharishi Gandharva VedaSM Music Courses

- The University offers a special dimension of music available through the Department of Maharishi Vedic Science: courses in the classical music system of the ancient Vedic civilization. This system trains musicians and composers to create enjoyable music whose goal is to elevate and harmonize the performer, the audience, and the environment. Some of India’s finest musicians serve as artists-in-residence, teaching and performing bamboo flute, sitar, tabla, and voice. For course descriptions of music courses, please see the Department of Maharishi Vedic Science section of this catalog.

DEPARTMENTAL REQUIREMENTS

Programs Offered

Students in other majors are invited to take electives in art or to pursue a Minor in Art and Design. Students may take a B.A. in Art and Design, or a B.A. in Art with an Emphasis in Music. Both of these 48-unit majors give students the choice of majoring in another discipline as well for a double major. For students who want to create a foundation for a potential career in the arts, we offer the Bachelor of Fine Arts (B.F.A.), a professional degree program. Our B.F.A. allows students to specialize for three months in advanced studios in painting and drawing, ceramics, sculpture, or digital media; completing personal projects under the guidance of art faculty who are experts in this area. During this time, students find their own voice within the visual language of their chosen field. Students may choose to develop a fine arts portfolio and to undertake commercial art projects that may offer income or lead to employment after graduation.

Graduation Requirements for the Bachelor of Fine Arts (B.F.A.) in Art and Design

(For general University requirements, please refer to Degree Requirements in Academic Policies.) The requirements for the B.F.A. degree are 88 units of course work as follows:

4 units of the first-year course:
- FA 141 Art and the Self

plus 12 units of these required second-year courses:
- FA 201 Art in Nature
- FA 203 Understanding Art
• FA 205 Principles of Design

plus 8 units from the following art history courses:
• FA 381 Prehistoric to Medieval Art
• FA 382 Renaissance to Contemporary Art
• FA 383 Nineteenth, Twentieth and Twenty-First Century Art
• FA 384 Traditions of World Art

plus 4 units of:
FA 470 Visual Culture Seminar

plus 8 units of:
• FA 301 Drawing 1
• FA 302 Drawing 2

plus 40 units from the following (Courses cannot be repeated to fulfill units for the B.F.A.):
• FA 282 Video Production
• FA 284 Video Editing
• FA 291 Video and Time-Based Art
• FA 311 Painting 1
• FA 312 Painting 2
• FA 316 Painting 3
• FA 331 Photography 1
• FA 332 Photography 2
• FA 335 Digital Photography
• FA 341 Ceramics 1
• FA 342 Ceramics 2
• FA 343 Ceramics 3
• FA 344 Ceramics 4
• FA 351 Sculpture 1
• FA 352 Sculpture 2
• FA 353 Sculpture 3
• FA 361 Digital Imaging and Graphic Design 1
• FA 362 Digital Imaging and Graphic Design 2
• FA 363 Web Design and Web Animation 1
• FA 365 Web Design and Web Animation 2
• FA 373 Visiting Artist Studio
• FA 398 Fieldwork

Plus 12 units in one of these specialized areas:
• FA 485 Advanced Studio in Painting and Drawing
• FA 486 Advanced Studio in Sculpture
• FA 487 Advanced Studio in Ceramics
• FA 488 Advanced Studio in Digital Media
Courses in Communications and Media toward the Art Major
As a replacement for Digital Media courses, art majors may take up to three
Communication and Media courses for credit toward the B.F.A., including but not limited
to the following courses:
• CMM 300 Narrative
• CMM 313 Documentary Filmmaking

plus field trips
All majors will have the opportunity to take a 3–5 day field trip or longer each semester
to a major metropolitan area to visit museums and galleries as part of their degree
requirements. The cost of the field trips is approximately $200–300, or more, per
semester.

plus evening video series
For the enrichment of its students, the department sponsors a twice-a-month series of
videotapes on art and artists. All students enrolled in art classes that month are expected
to attend these videotapes.

plus visiting artists
Students meet several times a year with visiting artists who come to campus at the
invitation of the Department. These meetings may fall outside regular class times,
including Sundays or weekends between courses, but attendance is a degree requirement.

plus successful completion of a portfolio (slides, CD Rom, or videotape) review.

To enrich their B.F.A. experience, students are encouraged to take a course in Maharishi
Gandharva Veda music and to take courses in Improvisational Dance/Movement as
electives.

Graduation Requirements for the Bachelor of Arts (B.A.) in Art and Design
48 units of art courses, including:

12 units of these required courses:
• FA 203 Understanding Art
• FA 205 Principles of Design
• FA 301 Drawing 1

plus 8 units from the following art history courses:
• FA 381 Prehistoric to Medieval Art
• FA 382 Renaissance to Contemporary Art
• FA 383 Nineteenth, Twentieth and Twenty-First Century Art
• FA 384 Traditions of World Art
• FA 470 Visual Culture Seminar

plus 4 units of either:
• FA 341 Ceramics 1
• FA 351 Sculpture 1

plus 24 units of electives in art

Courses in Communications and Media toward the B.A. in Art and Design. As a replacement for Digital Media courses, art majors may take up to three Communication and Media courses for credit toward the B.A., including but not limited to the following courses:
• CMM 300 Narrative
• CMM 313 Documentary Filmmaking

plus field trips
All majors will have the opportunity to take a 3–5 day field trip or longer each semester to a major metropolitan area to visit museums and galleries as part of their degree requirements. The cost of the field trips is approximately $200–300, or more, per semester.

plus evening video series
For the enrichment of its students, the department sponsors a twice-a-month series of videotapes on art and artists. All students enrolled in art classes that month are expected to attend these videotapes.

plus visiting artists
Students meet several times a year with visiting artists who come to campus at the invitation of the Department. These meetings may fall outside regular class times, including Sundays or weekends between courses, but attendance is a degree requirement.

plus successful completion of a portfolio (slides, CD Rom, or videotape) review.

To enrich their B.F.A. experience, students are encouraged to take a course in Maharishi Gandharva Veda music and to take courses in Improvisational Dance/Movement as electives.

Graduation Requirements for the Bachelor of Arts (B.A.) in Art with an Emphasis in Music
48 units of art and music courses, including:

12 units of required art courses:
• FA 203 Understanding Art
• FA 205 Principles of Design
• FA 301 Drawing 1

plus 8 units from the following art history courses:
• FA 381 Prehistoric to Medieval Art
• FA 382 Renaissance to Contemporary Art
• FA 383 Nineteenth, Twentieth and Twenty-First Century Art
• FA 384 Traditions of World Art
• FA 470 Visual Culture Seminar

plus 4 units of either:
• FA 341 Ceramics 1
• FA 351 Sculpture 1

plus 4 units of this required course in music:
MVS 340 Musicianship

Plus 16 units of music courses from the following:
• MVS 235 Music Appreciation
• MVS 342 Health Benefits of Maharishi Gandharva Veda
• MVS 343 Maharishi Vedic Science, Sound and Music
• MVS 344 Maharishi Gandharva Veda Ear Training
• MVS 345 Melody in Maharishi Gandharva Veda
• MVS 346 Rhythm in Maharishi Gandharva Veda
• MVS 347 Time in Maharishi Gandharva Veda
• MVS 451 Maharishi Gandharva Veda Studio (may be repeated for credit)

plus 4 units of:
MVS 452 Maharishi Gandharva Veda Recital Preparation
and a music recital.

plus field trips
All majors will have the opportunity to take a 3–5 day field trip or longer each semester
to a major metropolitan area to visit museums and galleries as part of their degree
requirements. The cost of the field trips is approximately $200–300, or more, per
semester.

plus evening video series
For the enrichment of its students, the department sponsors a twice-a-month series of
videotapes on art and artists. All students enrolled in art classes that month are expected
to attend these videotapes.

plus visiting artists
Students meet several times a year with visiting artists who come to campus at the
invitation of the Department. These meetings may fall outside regular class times,
including Sundays or weekends between courses, but attendance is a degree requirement.

Graduation Requirements for the Minor in Art and Design
To graduate with a minor, students must successfully complete 20 units of course work as
follows:

4 units of:
• FA 201 Art in Nature
plus 4 units of:
• FA 203 Understanding Art

plus 12 units of art and design courses.

**Graduation Requirements for the Minor in Improvisational Dance/Movement**

To graduate with a minor in Improvisational Dance/Movement, students must successfully complete 20 units of course work as follows (4 units per course):

• ESS 332 Improvisation Dance/Movement 1
• ESS 333 Improvisation Dance/Movement 2
• ESS 334 Performance Laboratory
• ESS 335 Introduction to Movement Science
• ESS 337 Introduction to Physical Theater

**Entrance Requirements for the Bachelor of Fine Arts Degree**

Students interested in the B.F.A. program apply to the Department after completing a minor in Fine Arts (20 units including Art and Nature, an art history course, and 3 studio courses), or the equivalent experience based on approval of the Department. Students entering the program must submit a portfolio documenting examples of previous course work. Admission to the B.F.A. program is based on portfolio and GPA. Continued participation in the program requires a 3.0 GPA or higher.
COURSES

Undergraduate Courses

NOTE: Materials fees are an estimated cost for the supplies that the student needs to provide for that course. Lab fees are required payments that must be made before the class begins, or at the beginning of a class. Field trip fees are payable before the trip.

FA 141 Art and the Self: Awakening the Transcendental Basis of Artistic Genius by Expressing the Full Range of Life in a Self-Portrait
Students delve into the creative process with focus on the self-portrait. To learn about the history of the self-portrait, they view some of the most famous self-portraits in Western art by Dürer, Rembrandt, Van Gogh, Anguissola, Vigee-Lebrun, Kollwitz, Escher, and others. Then they create their own. Through lectures and readings on art by Maharishi, students come to appreciate art from the deepest perspective — that all art originates within the Self of the artist, and they verify this from their own experience as artists. Topics include: principles of design and drawing. Students learn to use and combine the simple elements of line, shape, tone, and change of direction to foster self-expression. (2–4 units) Prerequisite: FOR 101

FA 201 Art in Nature: Expressing Art from the Source of Natural Law through Interdisciplinary Exploration of the Beauty and Wonder of Nature
Students gain an appreciation for the mechanics of creation as experienced in the natural world and within the realm of one’s own awareness as they engage in creative expression and the making of art. Through the experience of an ongoing interdisciplinary project, inspired by their observation of nature, students prepare a unique aesthetic presentation. Topics include: drawing from nature, photographing nature, design and camouflage, math in nature, music in nature, the language of nature — Sanskrit, perceptual exercises, bird-watching, and earth and environmental artists, including Goldsworthy, Long, and the Harrisons. Materials fee: $35. (4 units) Prerequisite: FOR 101

FA 203 Understanding Art: Culturing Aesthetic Sensibility by Appreciating Art as an Expression of the Heart, Mind and Universal Self
Art is a celebration of life. This course cultures an appreciation and sense of awe for all art forms. Slide lectures, discussions, workshops, and readings reveal that art is structured in the multilayered consciousness of the artist and the audience, and in the collective consciousness of the culture. The greatest art works give glimpses of the goal of all creativity — the universal Self in higher states of consciousness — and thus continue to inspire people throughout time. Topics include: the fundamentals of art: form, function, and symbolism as seen in art from many eras and cultures; the achievements of sacred art; the range of contemporary approaches to interpreting art; and creativity in art and the cosmos as brought to light by creative geniuses. A highlight of the course is a 2–4 day field trip to a major art center. Field trip fee: $50–200. (4 units) Prerequisite: FOR 101
FA 205 Principles of Design: The Quest for Balance and Unity in Art and Life
This course provides the knowledge and practical experience of how visual elements are organized by principles universal to the fine and applied arts. Topics include: examining and applying design principles and vocabulary such as figure/ground, interdependence, symmetry, rhythm, shape, and texture; understanding how these principles and their components apply to the scope of the visual arts, including drawing, sculpture, ceramics, photography, graphic design, architecture, fabric design, and landscaping; and understanding and expressing how design principles can be correlated to the balance and order of the universe and to individual life and living. (4 units) Prerequisite: FOR 101

FA 226 (LIT 363) The Art of Film: The Development of the Visual Image from a Simple, Realistic Reproduction to a Snapshot of the Soul
The Art of Film emphasizes film technique, such as the use of lighting, camera angles, and mise en scene. It takes the student out of the realm of the Saturday night “movie” and into the world of film as a major art form of the twentieth and twenty-first centuries. Our primary texts in this course will be the films themselves, including the masterworks of some of the world’s finest directors. Course requirements include the writing of film reviews, a short screenplay, and the analysis of key scenes from a film we will have viewed. (Same as LIT 363) (4 units) Prerequisite: FOR 101

FA 227 (LIT 365) Evolution of Film: From the Lumiere Brothers to Kurosawa — Honoring the Tradition of Film Art
This film survey traces the evolution of primarily American and European cinema from the early days of Griffith and Eisenstein through the twentieth and into the twenty-first century. It includes examples of history-shaping movements such as Soviet formalism, German expressionism, French realism, Italian Neo-realism, film noir, surrealism, and nouvelle vague. As in LIT 363, we will watch a selection of some of the finest “world masterpieces on film.” (Same as LIT 365) (4 units) Prerequisite: FOR 101

FA 229 Art and Culture: Learning through Travel — Enjoying the Fullness of Life by Exploring Art in Its Cultural Context
Students journey through the most nourishing creations of human culture in art, architecture, music, language, customs, and cuisine. They explore how these express both values unique to the culture and universal values of consciousness. This course is taught as part of the Rotating University program, focusing on the art and culture of a particular region while off campus, for example, in foreign countries. (Travel and lodging costs are additional.) Topics include: introduction to a foreign language, keeping a diary relating the experiences on the trip to one’s own personal growth of consciousness and the appreciation of another culture. Can be repeated for credit with permission of the instructor. (1–4 units) Prerequisite: FOR 101

FA 282 Video Production: Understanding and Applying the Aesthetics of Motion Pictures and the Technologies of Digital Video to Transform the World with a Vision of Unbounded Possibilities
Students produce, direct, act in, and edit original video projects for theatrical, television, or Web presentation. Students may work on both fiction and nonfiction projects with a
commercial or fine art orientation. A strong emphasis of the class is on creating integrated, artful works that have a positive effect on the world. **Topics include:** narrative structure, storyboarding, character design, and set design; lighting, camera movement, acting, and directing; editing, sound and music, animation, and compositing; distribution strategies and exhibition channels. Lab fee: up to $100. (4 units) Prerequisite: FOR 101

**FA 284 Video Editing: Utilizing Digital Tools for Capturing, Cutting, Sequencing, and Compositing Sound and Image to Create Artistic Wholeness**

Video editing requires the students to be able to synthesize all the different elements of their video into a greater whole. Students produce and direct video productions, and then complete them in the Department’s nonlinear digital video editing lab with a particular emphasis on creative approaches to editing. For inspiration, students analyze examples of great camerawork, lighting, *mise en scene*, and montage. **Topics include:** the language of the moving image, the 180 degree system, Murch’s Rule of Six, and principles of dramatic unity; shot selection, cutting techniques, sound mixing, and color correction; special effects, filters, keys, and keyframes. Lab fee: up to $100. (4 units) Prerequisite: FA 282

**FA 291 Video and Time-Based Art: Using Contemporary Digital Video Technologies to Depict Subtle Expressions of Consciousness in Motion**

Video as a medium and form of artistic expression goes beyond narrative story line and/or documentary video/filmmaking, into fourth dimensional time-based art. Since the 1960s, video has been adopted by visual artists who have taken their work out of the studios into everyday life. Students will gain theoretical knowledge and hands-on experience in digital video technologies. They will apply this knowledge and experience to create works that make use of the layered possibilities in video as a unique art form in the electronic age, a medium with the potential to inspire and uplift the world. **Topics include:** the history of video as time-based art, its transition into the digital/interactive domain, and its crossover into other disciplines including conceptual art, performance, sculpture and multi-channel video installation. Lab fee: up to $100. (4 units) Prerequisite: FOR 101

**FA 301 Drawing 1 — Drawing from Within: Engaging the Principles of Observation through the Action of Drawing**

In this course, students develop powers of observation and imagination, abilities that are vital for all the arts. Students focus on establishing the use of principles of drawing through observational methods. **Topics include:** still life, figure drawing, interior and landscape. Art and design majors take drawing courses as they advance through the curriculum. Can be repeated for credit with permission of the instructor. Materials fee: $35. (1-4 units) Prerequisite: FOR 101

**FA 302 Drawing 2 — Drawing from Within: Exploring New Materials and Possibilities for Self-Expression**

Students learn to use the power of drawing to convey a story, thus revealing in a visual narrative the sequential unfoldment of consciousness. Students engage the fundamental principles of drawing while introducing a variety of methods and materials; this sustains
aesthetic unity while encouraging diversity in the discovery process and the resulting image. Taught in an open studio situation, the course allows the teacher to address both the general needs of the group and the specific needs of the individual student to advance in the experience of drawing as a means of self-expression. Materials fee: $35. (1–4 units) Prerequisite: FOR 101

FA 304 Drawing Studio: Exploring Alternate Viewpoints
Students explore drawing with an emphasis on process, and its result, as a response to nature and the environment. Different applied viewpoints may include: illustration, graphics, animation, architecture, site-specific sculpture, industrial design, painting, sculpture. The theme of the course depends on the instructor. Materials fee: approximately $75, which includes field trips. Prerequisites: FA 301 or FA 201 or FA 351 or FA 532 or FA 205

FA 311 Painting 1: Growth of the Artist through Refinement of Perception and Enhancement of the Ability to Discriminate and Integrate
FA 312 Painting 2: Growth of the Artist through Refinement of Perception and the Expansion of Flexibility, Subtlety, Expression, Spontaneity, and Evenness by Means of the Brush (Prerequisite: FA 311)
FA 316 Painting 3: Growth of the Artist through Refinement of Perception and the Expansion of the Methods and Materials of Painting
Painting expresses the artist’s connection with the deep laws fundamental to seeing and creating visual images. Students are immersed in the fundamentals of drawing and painting from nature and a variety of other subject matter. The curriculum addresses the students’ development of formal and technical skills along with a conceptual and critical understanding of the language of painting as preparation for independent studio work. Can be repeated for credit with permission of the instructor. (1–4 units each)

FA 331 Photography 1 — Capturing Moments of Light: Learning the Essentials of the Darkroom and Appreciating Photography as a Tool for Refined Artistic Expression
Prerequisite: FOR 101
FA 332 Photography 2 — Capturing Moments of Light: Developing Photography as a Tool for Refined Artistic Expression
Students learn to use the photographic medium as a tool for exploring and expressing the finest values of awareness. Students develop their work by learning basic camera techniques and darkroom procedures, while they are also introduced to a broad range of fine art photography. Students must have access to a 35mm camera. Can be repeated for credit (with more advanced projects) with permission of the instructor. Lab fee: $150–$200 per course. (1–4 units) Prerequisite: FA 331 or consent of instructor

FA 335 Digital Photography: Unlocking the Power of Light
The goal of photography is to enliven the most refined values of consciousness and in this way support the evolution and growth of both the photographer and the viewer. Digital photography helps strengthen the connection between the photographer’s vision and the resulting images by providing nearly instant feedback and furnishing ever-subtler
tools for self-expression. In this course, students learn foundational principles that underlie commercial digital photography, while using principles from the Science of Creative Intelligence to consolidate both the experience and understanding of digital photography. Topics include: mastering the digital camera, managing a digital workflow, color management in theory and practice, visualizing light and how to control it in the digital darkroom. (1–4 units) Prerequisite: FOR 101

FA 341 Ceramics 1 — Shaping the Unmanifest: Clay Forming, Glazing and Firing through Handbuilding Methods
Students learn the entire process of ceramics from making clay to firing pottery, providing them with the basic skills necessary to express consciousness in matter in this medium. Topics include: addressing the vessel with handbuilding methods such as pinch, coil and slab construction; basic glazing methods; earthenware, stoneware, and raku firing methods. Lab fee: $45. (4 units) Prerequisite: FOR 101

FA 342 Ceramics 2 — Shaping the Unmanifest: Throwing Pottery Forms on the Wheel
Wheelthrowing opens a new dimension of experience for the student potter. The challenge to center and form a pot while the clay is spinning through the hands leads to a synchronicity that powerfully connects potter and pot, consciousness and matter, in the process of creation. This intensive course focuses on establishing the student’s basic wheelthrowing skills with simple forms. Topics include: addressing form, glazing and function in wheelwork. Lab fee: $45. (4 units) Prerequisite: FOR 101

FA 343 Ceramics 3 — Shaping the Unmanifest: Integration of Surface and Form through Enlivening Color and Pattern
The integration of surface and form is a further development of the connection of inner and outer aspects of the ceramic form. Students continue to develop and integrate handbuilding and wheelthrowing methods of forming. Topics include: specific focus on exploring glaze, and surface possibilities such as drawing, color, texture, and their relation to the aesthetic and functional components of ceramics. Lab fee: $45. (4 units) Prerequisite: FOR 101

FA 344 Ceramics 4 — Shaping the Unmanifest: Developing Sculptural Possibilities in Ceramic Form
Sculpture has a natural relationship with the development of ceramics in that it extends the 3-dimensional play and enriches the possibilities of storytelling — consciousness revealing its process of unfoldment — in clay forms. Topics include: focusing on the various visual, functional and conceptual considerations (including tile, bas relief, freestanding form, and installation) that take ceramics in a sculptural direction. Lab fee: $45. (4 units) Prerequisite: FOR 101

FA 351 Sculpture 1 — Bas Relief: Breathing Life into Matter
By exploring organic forms and creating designs from imagination, students make original sculptural surfaces that emerge from a two-dimensional plane. Exercises that expand the capacity to envision and create give students a deeper appreciation of the
nature, creation, and function of sculpture, and thus the opportunity to express the
fundamental laws that structure form in the natural world. **Topics include:** low, middle
and high relief; organizing principles of two and three-dimensional design (balance,
rhythm, economy, etc.); light and shadow; transforming clay reliefs into plaster reliefs;
the history of relief sculpture. Materials: paper/cardboard, clay and plaster. Materials fee:
$40. (4 units) Prerequisite: FOR 101

**FA 352 Sculpture 2 — The Portrait: Mirroring the Self**
Students continue the exploration and expression of form on a more personal level —
they have the opportunity to mirror the different layers of their own consciousness in
lifelike self-portraits. Students experience the controlled creation and evolution of their
portrait as they sculpt in clay, transform the portrait into plaster, and cast the finished
work in porcelain. **Topics include:** drawing the portrait (contour and tonal); sculpting the
portrait; working from observation; organizing principles of three-dimensional design;
proportion; form relationships; making plaster molds; slip casting; photographing
sculpture; and the history of portrait sculpture. Materials: clay, plaster, and porcelain slip
(liquid clay). Materials fee: $40. Prerequisite: FA 351 (4 units)

**FA 353 Sculpture 3 — The Figure: Embodying the Fullness of Consciousness**
This course emphasizes sculpting the human figure, which has the potential to embody
the fullness of consciousness within the cosmos. Students continue to explore the
principles that structure form. In addition, they develop skills and gain the technological
know-how for sculpting, mold-making, casting, making limited editions, and mass
production. **Topics include:** drawing the figure (contour and tonal); principles of three-
dimensional design; making an armature; sculpting the figure in clay; working from
observation; form/space relationship; proportion; anatomy (skeletal and musculature);
mold-making, casting slip (liquid clay); the history of figure sculpture. Materials: clay,
plaster and slip. Materials fee: $40. Prerequisites: FA 351, FA 352 (4 units)

**FA 361 Digital Imaging and Graphic Design 1: Exploring the Nature of the Image,
Imagination, and Reality Using Advanced Tools for Digital Image Creation and
Manipulation**
Students explore the digital image, the visual world and imagination in a series of image
creation and manipulation projects. Goals of the course are to gain comfort and develop
expertise with digital imaging tools, and to apply this expertise by developing a portfolio
that explores the nature of visual reality. Topics include the digital camera, the scanner,
and the printer; composition, light and shadow, depth of field, and color; image creation
strategies, digital painting, digital 3-D modeling and rendering, and digital photography;
selection tools, transformations, filters, layers, and masks. Lab fee: up to $100 per course.
Prerequisites: basic computer skills. (4 units)

**FA 362 Digital Imaging and Graphic Design 2: Bringing Art to Life by Integrating
Photography, Typography, Graphics, and Illustration**
Students work on multifaceted projects that bring art to life by integrating illustration,
photography, typography and graphic design. Projects include poster design and book
design (which may have either a commercial art or fine art orientation), and stationery
design, brochure design and advertising design (which have a more purely commercial orientation). Topics include digital painting and drawing, vector graphics manipulation, and digital page layout; drawing and illustration techniques, typography, and principles of graphic design; letterform design, logo design, and page design. Lab fee: up to $100 per course. Prerequisite: FA 361 or equivalent experience. (4 units)

**FA 363 Web Design and Web Animation 1: Creating Digital Art in a Self-Interactive Universe**

Students undertake study of XHTML, Cascading Style Sheets, and principles of design for dynamic media, which they apply in the creation of a portfolio of beautiful, highly functional, standards-compliant, and highly usable Web pages. Topics include: creative approaches to Web design; XHTML syntax, tags, attributes, entities, DTDs and validation; CSS; creating hierarchies with color, type, and imagery; principles of usability for interactive media; using a visual lexicon for designer-client communication; examples of outstanding Web design studios; homesteading the noosphere. Prerequisite: CMM 260, FA 361 or equivalent experience. (4 units)

**FA 365 Web Design and Web Animation 2: Integrating Interactive Vector Graphics, Animation, 3-D, Video, and Audio to Create Illuminating User Experiences**

Students learn to use advanced tools for Web design and interactive animation, 3-D, and video, to build richly interactive Web sites that inspire the viewer. Topics include Web 2.0; conceptualizing the user experience; creating innovative and elegant user interfaces; interactive vector graphics animation; content management systems; 3-D animation for the Web; streaming video; and creating cinematic user interfaces. Prerequisite: FA 363 or equivalent experience. (4 units)

**FA 373 Visiting Artist Studio: Exploring the Relationship of Parts to Whole in the Work of Art**

This is an opportunity to study with visiting faculty who present topics in two-dimensional, three-dimensional, time-based and/or new media disciplines. The course is tailored to all levels — beginning through advanced. Topics include formal and conceptual approaches, contrasting contemporary with historical viewpoints, exploring materials, tools, and methods, and developing the creative process. This course will emphasize the development of a broad comprehension and the ability to focus — the relationship of parts to whole in the work of art. (1-4 units) Prerequisite: FOR 101

**FA 381 Prehistoric to Medieval Art — Discovering the Eternal Quest for Immortality in Western Sculpture, Painting, and Architecture**

Students explore the great achievements of art and architecture in prehistoric cultures and in the ancient civilizations of Egypt, Greece, Rome, Byzantium, and the European Middle Ages. In each of these cultures, the quest for immortality created art that continues to inspire human consciousness. Students examine how contemporary artists have been influenced by art from these periods. Topics include sacred sites that connected humanity with the cosmos, the Mother Goddess in art and culture, the development of styles in Egyptian and Greek art and how they mirror stages in the unfoldment of consciousness,
and the creation of a heavenly kingdom on Earth in Christian art and architecture. A highlight of the course is a 4-day field trip to a major art center such as New York, St. Louis or Kansas City. Field trip fee: $175–$225 (or more). (4 units) Prerequisite: FOR 101

FA 382 Renaissance to Contemporary Art — the Search for Fulfillment in Art and Life from the Renaissance to Modernism, Post-Modernism, and an Emerging Art of Expanded Awareness
Students focus on the most inspiring creations of Western art and architecture from the 1400s to the twenty-first century. They discover how artists have expressed both sacred and secular values in their quest for perfection in art and fulfillment in life. This epoch’s vast amount of art is comprehended in terms of cultural paradigms — a paradigm is both an era’s ideal of art and a world-view. The four major paradigms covered are: Renaissance, Modernism, Post-Modernism, and an emerging contemporary paradigm — an art of expanded awareness. Topics include: the transformation of art and consciousness in each paradigm; the integration of spirit and matter in Renaissance art; how the art of the past has influenced modern artists; and the artists, styles, symbols, cultural values, and aspects of consciousness expressed in the major paradigms. A highlight of the course is a 4-day field trip to a major art center such as Chicago. Field trip fee: $175–$225. (4 units) Prerequisite: FOR 101

FA 383 Nineteenth, Twentieth and Twenty-First Century Art — Awakening to the Search for Self-Realization
Students focus on major movements in art from the nineteenth to the twenty-first century, and also examine the influence of Japanese and African art on artists of this period. Students explore how modern art and culture express a quest for self-realization in higher states of consciousness. Topics include: the search for transcendence in the art and theories of modern artists; the phase transition from traditional art to modern art, post-modern art and a visionary art of the future; the styles of Impressionism, Post-Impressionism, Fauvism, Cubism, Surrealism, Expressionism, Non-Objective Art, Abstract Expressionism, Pop Art, Environmental Art, an art of refined perception, etc. A highlight of the course is a 4-day field trip to a major art center such as Chicago. Textbook fee: $20; field trip fee: $175–$225. (4 units) Prerequisite: FOR 101

FA 384 Traditions of World Art: Exploring Ancient Art that Transcends Time and Place by Embodying the Wholeness of Life
Students journey through the glorious traditions of world art, including Indian, Chinese, Japanese, Islamic, African, and Native American art. All traditions reflect both unique cultural values and universal values, such as the aspiration to embody the wholeness of life in higher states of consciousness. Students also explore how the arts of these cultures continue to inspire modern artists. Topics include: The world views of traditional cultures compared to the world view of the modern West; the nature and functions of sacred art; the embodiment of forces of nature in Indian art, Taoist and Buddhist painting and sculpture, Islamic design and architecture, African masks and ritual objects, and Native American art and artifacts. A highlight of the course is a 3–4 day field trip to a major art
center such as Chicago, St. Louis or Kansas City. Field trip fee: $175–$225. (4 units)
Prerequisite: FOR 101

**FA 390 Thesis Proposal: Drawing from the Source of Creativity to Create a Foundation for Artistic Success**
This course gives visual arts majors an opportunity to apply their knowledge and experience of art and consciousness to create a visual and theoretical foundation for an extended project. Prerequisites: a 3.0 GPA in the Visual Arts, completion of at least 48 units of art and design courses, and approval by the major advisor one month before the course begins. (variable units)

**FA 391 Thesis Preparation: Translating Beauty and Form into Visual Communication**
This course gives visual arts majors an opportunity to apply their knowledge and experience of art and consciousness in an extended project. Materials fees determined by instructor. Prerequisite: FA 390. May be repeated with consent of the instructor. (variable units)

**FA 398 Fieldwork: Applying Studio Knowledge in Practical Situations to Strengthen Action, Achievement, and Fulfillment**
Students study or apprentice with an artist or art-related professional or facility, with the approval of their major advisor. Students document their experiences in sketchbooks and journals, and connect what they are learning to their knowledge and experience of consciousness. Fieldwork must be completed at least two months before graduation. Prerequisite: consent of the Art and Design faculty. (1–4 units)

**FA 399 Art Directed Study: Knowledge Is Structured in Consciousness**
Directed study courses are offered in rare circumstances to advanced and academically self-sufficient students who need a course to graduate and are unable to take the regular course due to extraordinary circumstances. Prerequisite: consent of the Art and Design faculty. (variable units)

**FA 470 Visual Culture Seminar: Deepening Artistic Experience and Intellectual Understanding for Creative Growth**
Students examine the vocation, role, and responsibility of the contemporary artist and art critic in the light of their own artistic aspirations. This seminar focuses primarily on art criticism to develop the integration of intellectual understanding and studio practice. The concentrated experience of reading and writing about art cultures the habit of going more deeply into the substance of works of art, which nurtures the ability to more clearly apply and realize the highest values of visual expression. A highlight of the course is a field trip to a major art center, such as Chicago, Los Angeles or New York. Field trip fee: $250-500 (or more). (4 units) Prerequisite: FOR 101
FA 485 Advanced Studio in Painting and Drawing: Finding a Personal Voice in the Language of Painting and Drawing
Students have the opportunity to build on the experience of previous painting courses through the further development and deeper understanding of their own expression with paint. The focus of this course is to allow the student to form a strong personal direction and develop a personal conceptual framework in their studio exploration in painting. Topics include: exploring different methods and materials in painting, research in the history and current developments in the field of painting. Lab fee: $45. Prerequisites: FA 311, FA 312, FA 313. May be repeated for credit. (4 units)

FA 486 Advanced Studio in Sculpture: Finding a Personal Voice in the Language of Sculpture
Students have the opportunity to build on the experience of previous sculpture courses through the further development and deeper understanding of their own expression in three-dimensional form. The focus of this course is to allow students to form a strong personal direction and develop a personal conceptual framework in their studio exploration 3D media. Topics include: exploring advanced methods and materials.... in clay, plaster, wax, resin, etc. Students will also be engaged in researching the history and current developments in the field of sculpture. Lab fee $35. (Prerequisites: FA 341, 342, 343). May be repeated for credit. (4 units)

FA 487 Advanced Studio in Ceramics: Finding a Personal Voice in the Language of Ceramics
Students have the opportunity to build on the experience of previous ceramics courses through the further development and deeper understanding of their own expression in clay. The focus of this course is to allow the student to form a strong personal direction and develop a personal conceptual framework in their studio exploration in ceramics. Topics include: exploring advanced methods and materials in clay and glaze, firing kilns, research in the history and current developments in the field of ceramics. Lab fee $45. (Prerequisites: FA 341, 342, 343). May be repeated for credit. (4 units)

FA 488 Advanced Studio in Digital Media: Convergence of Imaging, Video, Animation, Graphics, Art, Computers, and Creativity
Students focus on advanced investigation of digital imaging, video, animation, graphic design or Web design, according to their chosen area of specialty, with a particular emphasis on creating strongly integrated works in which each detail contributes to the theme of the whole. Through workshops, students also develop practical skills that are useful to a career as an artist/designer, and that include portfolio preparation, writing a resume, and developing good relationships with clients or employers. (4 units) (Prerequisites: 12 units of FA 361, FA 362, FA 363, FA 280, FA281, CMM 313, CMM 321, or CMM 322, lab fee up to $75.) May be repeated for credit.

Graduate Courses
The Department does not currently offer a graduate program. Occasionally we will offer graduate level courses to qualified students.
FA 575 Practicum in Art: Knowledge and Experience are the Basis of Action, Achievement and Fulfillment
In this practicum course, students perform art-related tasks in one of the administrative or academic departments of the University. The tasks performed may be in the area of painting, drawing, ceramics, sculpture, design, digital media, photography, or video, and require approval in advance of the faculty in consultation with the practicum supervisor in the department where the student is placed. (0.5 units — may be repeated)

FA 591 Directed Study in Art Applications: Applying Knowledge to Structure Success in the Arts
In this course the student covers material selected by the faculty according to the needs and program of study of the student. (1–2 units — may be repeated)

Communications and Media Courses

CMM 300 Narrative: Unifying and Unfolding the Full Range of Human Experience
This course examines the essential role of narrative in the creation of all forms of media. From the very beginnings of human records, whether it is mythology, scripture, literature, or the earliest cave paintings, the creators of these works have always told their audience a story or imparted a message by the use of narrative. In order to work in any creative medium, understanding the various ways in which narrative is used is a great advantage. This course will examine the range of narrative forms and narrative devices that have been used since the dawn of time right up until the modern day. We will discover that although the forms and types of media used might have changed as technology has advanced, in fact, most of the essential forms of narrative used in creative works have been with us for ages. Understanding why will reveal how narrative reflects both the universal and unique aspects of the experience of human life. As part of the course students will be required to undertake projects that aid the development of their own narrative skills. (4 units) Prerequisite: FOR 101 (4 units)

CMM 313 Documentary Filmmaking: Developing the means to explore human life in all its diversity and underlying unity
Documentary films have their basis in the real world. They are made for a variety of purposes but fundamentally they explore the entire range of human experience. This course will examine the role of documentary filmmaking and all the various forms of the documentary. It will be a fascinating journey that will take students all over the globe and throughout history dealing with a wide range of issues both past and present. In this course students will also examine how to make a documentary. It is therefore very practical in its focus. The first requirement to any documentary is knowing what the story is and what kind of story makes a good documentary. Having chosen a story, there is then the realization of it. This course will teach students the process of securing a commission from a TV channel or potential funder. Students will learn what is required to make the all-important pitch. They will then choose some stories and make short documentaries about them. Prerequisites: CMM 300, and either FA 282 or FA 284. (8 units)
CMM 313 Documentary Filmmaking: Developing the means to explore human life in all its diversity and underlying unity
Documentary films have their basis in the real world. They are made for a variety of purposes but fundamentally they explore the entire range of human experience. This course will examine the role of documentary filmmaking and all the various forms of the documentary. It will be a fascinating journey that will take students all over the globe and throughout history dealing with a wide range of issues both past and present. In this course students will also examine how to make a documentary. It is therefore very practical in its focus. The first requirement to any documentary is knowing what the story is and what kind of story makes a good documentary. Having chosen a story, there is then the realization of it. This course will teach students the process of securing a commission from a TV channel or potential funder. Students will learn what is required to make the all-important pitch. They will then choose some stories and make short documentaries about them. Prerequisites: CMM 300, and either FA 282 or FA 284. (8 units)

Improvisational Dance/Movement Courses

ESS 332 Dancers and Actors Explore Improvisational Movement as an Expression of Deepest Creative Impulses
Improvisation becomes the most truthful when the mover acts from the deepest part of himself. The course focuses on building strength, flexibility, range of movement and the experience and understanding of the mechanics of the creative impulse, so that dancers or actors can begin the exploration of movement in the context of themselves, music, other students, and the environment of the theater. (4 units — may be repeated) Prerequisite: FOR 101

ESS 333 Improvisation Dance/Movement 2: Expanding the Experience of Movement Truthful to the Inner Life of Each Student
As an extension of ESS 332, this course extends the understanding of creative truthful movement as spontaneous, natural, arising from pure consciousness, and the source for a further exploration of the principles of space, weight, time, flow, and other fundamental principles of movement. Prerequisites: ESS 332 and permission of the instructor. (4 units)

ESS 334 Performance Laboratory: Cycles of Performance and Critique to Stabilize the Ability to Use Improvisation as a Performance Method, Drawing from the Creative Source of All Performing Arts
The most truthful and most satisfying movement and performance comes out of a deep connection to the Self, pure Being. Cycles of performance and critique develop the ability to discriminate between stronger and weaker performances, establish confidence in the many layers of the personality, and strengthen all performance skills. Prerequisites: ESS 333 and permission of the instructor. (4 units)
ESS 335 Introduction to Movement Science: Life Moves in Waves of Rest and Activity
This overview course presents the fundamentals of anatomy and physiology of exercise, skill acquisition, skill analysis, and care and treatment of common athletic injuries in light of the intimate dialogue of body to mind. The goal of the course is to understand that as the physiology is nurtured, the mind is stimulated to greater possibilities. Through cycles of rest and activity students comprehend the possibility of perfection in the body-mind continuum. Open to all students. (4 units) Prerequisite: FOR 101

ESS 337 Introduction to Physical Theater: Breathing Life into the Lifeless — Working with Masque and Movement, Tools in Creating Fully Developed Characters for Stage
Experiencing the silent, unmoving source of movement leads to an understanding of not only the student’s deepest nature, but allows the student to apply that understanding to the creation of characters. In this course, masque building, masque work, and movement exercises help to create fully developed stage personalities. Open to all students. Suggested prerequisite: ESS 332. (4 units)

Courses in Maharishi Gandharva Veda Music
The University offers a special dimension of music available through the Department of Maharishi Vedic Science: courses in the classical music system of the ancient Vedic civilization. This system trains musicians and composers to create enjoyable music whose goal is to elevate and harmonize the performer, the audience, and the environment. Some of India’s finest musicians serve as artists-in-residence, teaching and performing bamboo flute, sitar, tabla, and voice. For course descriptions of music courses, see the Department of Maharishi Vedic Science section of this catalog.
DEPARTMENT OF BUSINESS ADMINISTRATION

FACULTY

• Victoria Kurth Alexander, J.D., LL.M., Chair, Associate Professor of Law and Government
• David Goodman, Ph.D., Associate Chair, Assistant Professor of Management, Director of the M.B.A. in Sustainable Business
• Andrew Bargerstock, Ph.D., Associate Professor of Management, Director of the Accounting Professionals M.B.A. Program
• Jane Schmidt-Wilk, Ph.D., Associate Professor of Management, Co-director of the Ph.D. Program
• Tom Carlisle, Ph.D., Assistant Professor of Management
• Kenneth Cavanaugh, Ph.D., Professor of Applied Statistics
• Dennis P. Heaton, Ed.D., Professor of Management, Co-director of the Ph.D. Program, Dean of Distance Education and International Programs
• Scott R. Herriott, Ph.D., Professor of Management, Expansion Council Chair
• William Goldstein, J.D., Assistant Professor of Law and Government
• Rachel Goodman, Ph.D., Associate Professor of Management, Director of Career Development, Director of the Minor in World Peace
• William W. Graff, C.P.A., C.M.A., M.B.A., Assistant Professor of Accounting
• Bruce McCollum, Ph.D., Assistant Professor of Management
• Ron Pleasant, M.B.A., Assistant Professor of Management
• James Sinton, B.A. (Hons), Instructor of Management
• Kenneth West, M.B.A., Assistant Professor of Management
• Zhu Yunxiang, M.B.A., Assistant Professor of Management, Associate Dean of Asian Expansion
• Michael Blitz, B.A., Adjunct Instructor of Management
• Wendy Cavanaugh, M.A., Adjunct Assistant Professor of Writing
• Ken Sewall, Ph.D., Adjunct Associate Professor

INTRODUCTION

The Department of Business Administration offers a Bachelor of Arts in Business, a Master of Business Administration, and a Ph.D. in Management. Each of these degree programs is oriented toward the achievement of specific student learning outcomes through real-world-oriented, active learning projects.

The bachelor’s program culminates in the presentation of a business plan developed by the student entrepreneur. In the M.B.A. program, students apply their knowledge to improve the performance of an organization. The Ph.D. in Management prepares researchers who can enrich the understanding and practice of management with new knowledge about the highest levels of performance for the individual, the team, and the organization as a whole.
All of these programs are taught in the light of Maharishi Vedic Management℠ — the knowledge of the total intelligence of Nature and its organizing power. Natural Law automatically manages the infinitely complex and evolving universe without strain and without mistakes. By studying the theoretical and practical aspects of Maharishi Vedic Management, including the Transcendental Meditation program, students personally grow in better health, clearer thinking, greater creativity, moral development, and wisdom. They integrate the study of contemporary developments in the discipline with the practice of Transcendental Meditation and their experience of the source of the infinite organizing power of Natural Law, which is available in the Transcendental Consciousness of anyone.

Research has shown that a natural result of the practice of the Transcendental Meditation technique is an appreciation for one’s environment and more harmonious interpersonal relationships. As a result, students in the business department have a broadened awareness of their place in the world and understand the importance of making a positive, sustainable contribution to society.

**SPECIAL FEATURES**

- **Case Studies and Entrepreneurship** — The programs and courses of the Department of Business Administration are oriented around real-world, active learning projects. Undergraduate majors and first-year students in the M.B.A. in Sustainable Business write business plans for their own entrepreneurial ventures. Second-year students in the M.B.A. in Sustainable Business consult with local businesses and organizations to improve their business processes.

- **Ethics and Environment** — The curriculum explores issues of ethical integrity, social responsibility, and environmental sustainability to prepare business leaders to be stewards of society and the environment.

- **Management by Natural Law** — Management training at Maharishi University of Management makes use of the latest discoveries about how Natural Law administers all levels of creation, and trains students to gain the support of Nature, good fortune, to enable them to most easily fulfill their goals.

- **Enlightenment and World Peace** — Maharishi University of Management is the leading University in the world specializing in development of human consciousness. It is an ideal place to learn how to create and study the transformation of organizations and society through developing and utilizing human potential.

**DEGREE PROGRAMS**

**Bachelor of Arts in Business**

Courses in the business curriculum encompass an international perspective to help prepare graduates to function effectively in the world’s varied cultural and business

Maharishi University of Management offers the M.B.A. degree in various formats for different types of students. Those who take the M.B.A. in the standard format at the Fairfield campus will earn the Masters in Business Administration in Sustainable Business. Other programs available on the Fairfield campus are an evening/weekend program and an M.B.A. with specialization in Accounting. The University also offers options for part-time study and an accelerated M.B.A. program for experienced professionals, managers and leaders.

**M.B.A. in Sustainable Business**
Because society increasingly recognizes the importance of sustainability, new opportunities abound, but an entrepreneurial approach is necessary to recognize and implement them. The curriculum of Maharishi University of Management offers a range of entrepreneurial business courses to train students to create new businesses that offer life-sustaining products and services. Issues of ethical integrity, social responsibility, and environmental sustainability are integrated into all the business courses.

Maharishi University of Management embraces the vision that business can be “green both ways,” making money and operating in harmony with Nature. Examples of green business and “natural capitalism” — often referred to as “the next industrial revolution” — are integrated throughout the MBA curriculum.

At Maharishi University of Management, the theme of sustainability has five key components:

- **Self Sustainability** —
  Developing your full mental potential, physical health, and leadership abilities through Consciousness-Based education

- **Sustainable Entrepreneurship** —
  Creating successful “green” businesses that produce real value for society

- **Sustainable Business Solutions** —
  Learning techniques of continuous process improvement to sustain business success — serving the evolutionary needs of customers while eliminating waste for the business and the environment

- **Sustainable Management** —
  Practicing the interpersonal and organizational skills needed to successfully carry out
transformational change

• **Sustainable Living**
  Gaining advanced knowledge and experience in renewable energy, organic agriculture, and the other principal fields of sustainable living

The first year of this two-year program emphasizes sustainable entrepreneurship in the study of the foundational subjects in business. Over the course of the first year, students apply the knowledge they are gaining in class to create business plans. Experienced business managers, as well as a team of highly-trained faculty, provide mentoring and feedback at checkpoints throughout the business plan project.

The second year of the M.B.A. includes electives and a module of courses on sustaining the improvement of business processes. This module focuses on contemporary best practices in customer-centered approaches to achieve reliability, efficiency and continuous innovation. Business organizations are viewed as a system of interrelated processes through which the work of the organization is accomplished.

To enhance customer satisfaction and improve business outcomes, an emerging firm must refine and improve its business processes. The emphasis on improving business performance through improving business processes is a central defining feature of Six Sigma, Lean Thinking, and other approaches to business-performance improvement that are being increasingly adopted by leading companies worldwide, including Motorola, General Electric, FedEx, Dupont, and many others. Smaller companies are increasingly being required to adopt their own effective process-improvement programs in order to qualify as suppliers to these larger corporations. Six Sigma, Lean Thinking, and other approaches can help firms balance structure with continuous innovation. The Organizational Improvement module includes a practicum in which students apply process improvement techniques as consultants to an actual business.

**Evening /Weekend M.B.A. Program**
This program offers an opportunity for students to earn their M.B.A. degree while working full-time. These students take 5 academic courses per year in the evenings and on weekends rather than the normal 10 courses per year. As a result, this program can take up to three years to complete. By studying in the evenings, their work during the day becomes a form of curricular practical training in which they can integrate and apply the knowledge they learn in class.

**Accounting Professionals M.B.A. Program**
The Accounting Professionals program is one of the accelerated M.B.A. programs offered to experienced business people. It requires 8 months of study on campus and two years of distance education at a quarter-time speed while working full-time. This program is designed for students with a strong academic background and professional experience in accounting. The course work for the M.B.A. builds on this background and is intended to prepare students for a career as a Certified Management Accountant or Certified Public Accountant. A distance education component at the end of the program also gives
students the opportunity to get practical experience.

**Executive M.B.A. Program**
Like the Accounting Professionals Program, the Executive M.B.A. is an accelerated version of the M.B.A. that is designed for experienced managers and policy makers. At the request of a client organization, the faculty of Maharishi University of Management can create specialized tracks of the M.B.A. program tailored to the needs of a specific corporation, nonprofit, or public sector organization.

**Ph.D. in Management**
The doctoral program is designed to prepare students for careers as professors, consultants, or researchers. The focus of the curriculum is on transforming the performance of individuals and organizations. Today, developing and utilizing human potential is widely recognized as the cornerstone of corporate transformation and economic development. Maharishi University of Management is the leading University in the world specializing in development of human consciousness. It is an ideal place to learn how to unfold full human potential and create and study the transformation of organizations.

The Ph.D. in Management program at Maharishi University of Management is taught in the light of Maharishi Vedic Management — the knowledge of the total intelligence of Nature. Natural Law automatically manages the infinitely complex and evolving universe without strain and without mistakes. Through studying the theoretical and practical aspects of Maharishi Vedic Management, including the Transcendental Meditation program, students personally grow in better health, clearer thinking, greater creativity, moral development, and wisdom.

The Ph.D. program prepares each student to conduct original and significant research through courses in research methods and statistics. Each student is encouraged to identify a research topic early in his or her studies so that the research papers throughout the program can focus on this chosen topic. Students in the Ph.D. program are trained in principles and practices for successful college teaching and corporate education.

The Ph.D. in Management requires four semesters of full-time study in residence at Maharishi University of Management. As part of the required course work in the fourth semester, students undertake a written comprehensive exam and oral qualifying exam. During the fourth semester, the student has the optional opportunity to take electives in business graduate courses that support the student’s academic and research goals. When a student successfully completes an oral qualifying examination, the student is advanced to Ph.D. candidate status, and tuition is reduced. When a dissertation proposal is accepted, the student is advanced to Ph.D. researcher status. The Ph.D. researcher must successfully complete an oral defense of the dissertation.
DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Business Major or Minor
Before taking any courses in the management major or minor, students must successfully complete or waive College Composition II (WTG 192). Statistics (MGT 314 or 424) is a prerequisite for the Entrepreneurship Module.

Graduation Requirements for the Bachelor of Arts Degree in Business
To graduate with a B.A. in Business, students must successfully complete all general requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of these requirements, 54 units of course work in business administration must be completed as follows:

The required undergraduate courses are grouped into three sequential modules. In the Skills for Success in Personal and Professional Life module students learn practical skills for successful functioning in the modern world. In the Business Foundations module students grow in knowledge of the legal, economic, and social environment of business life. In the Entrepreneurship module, students gain knowledge and experience of starting and growing companies by studying and creating business plans.

Required: Four courses (16 units) in Skills for Success in Personal and Professional Life
• MGT 200 Principles of Business Success
• MGT 201 Business Communication Skills
• MGT 220 Principles of Economics
• MGT 314 or 424 Statistics for Business and Environmental Management (Prerequisite: Math 153 or Math 170)

Required: Five courses (20 units) in the Business Foundations module
• MGT 428 Business Law and Ethics
• MGT 429 Human Resource Management
• MGT 482 Management and Organization
• MGT 315 Financial Accounting
• MGT 402 Managing for Sustainability

Required: Five courses (18 units) in the Entrepreneurship module
• MGT 404 Managerial Accounting
• MGT 346 Career Strategies (2 units)
• MGT 425 Marketing Management
• MGT 430 Financial Management
• MGT 432 Entrepreneurship Project

After completing a minimum of 40 units in the Business major, students may interview for business positions and earn internship credit of up to 20 units of elective credit toward their bachelor’s degree. Students at Maharishi University of Management have a particular advantage in the competition for internships nationwide. The block calendar of
month-to-month study makes it easy for a student to take off one or two months and work full-time on a business project at any time of the year. Such internships are an opportunity for students to apply the knowledge gained in the Business Administration major in a workplace setting.

**Graduation Requirements for the Minor in Business**

To graduate with a minor in business, students must complete (20 units) of course work in business including MGT 200 Principles of Business Success.

**Graduation Requirements for the Minor in Government**

To graduate with a minor in government, students must complete 20 units of course work consisting of at least one government (GOV) course. Eligible MGT courses are those in the following list:
- MGT 402 Managing for Sustainability
- MGT 414 Taxation
- MGT 428 Business Law and Ethics
- MGT 429 Human Resource Management

**Graduation Requirements for the Minor in World Peace**

To graduate with a minor in world peace, students must complete MVS/GOV 380 The Individual as the Unit of World Peace and GOV 290 Collective Consciousness and World Peace, and 12 units of course work from the following:

- GOV 280 International Relations and Peace
- GOV 407 Negotiation, Mediation, and Cross-Cultural Communication
- MVS 302 Bhagavad-Gita — Chapters 1–3
- MVS 303 Bhagavad-Gita — Chapters 4–6
- MVS 304 Application of Maharishi Vedic Science
- MVS 307 Practicum in Maharishi Vedic Science
- MVS 330 Transcendental Meditation-Sidhi Course
- BIO 405 Sustainable Global Environment
- MGT 402 Managing for Sustainability
- MGT 403 World Peace Project
- SL 330 Bio-Cultural Ethics
- SL 346 Vedic Architecture and Green Architecture
- LIT 207 The Bhagavad-Gita
- LIT 366 The Peace Film
- LIT 370 Literature and the Environment

**Entrance Requirements for the Master of Business Administration Degree**

Applicants must have an undergraduate degree. Acceptance is based upon the quality of undergraduate performance, aptitude test scores, work experience and other achievements. A TOEFL score of at least 550 (paper-based) or 213 (computer-based) is required if a student’s native language is not English. English assessment by the Maharishi University of Management Admissions Office may be substituted for the TOEFL test. The Graduate Management Admission Test (GMAT) or Graduate Record
Examination (GRE) is recommended but not required. Before enrolling for the first semester of the M.B.A., students should be familiar with principles of economics, from a prior college course or from reading a Principles of Economics textbook. Knowledge of college algebra is preferred for acceptance into the program. Students who do not have the prerequisite knowledge of mathematics will be required to take MGT 417 Mathematics for Business in a summer session prior to their first semester or as an elective course.

Graduation Requirements for the Master of Business Administration Degree
To graduate with an M.B.A., students must successfully complete all general requirements for a master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of these requirements, students must complete 74 units of management course work as follows:

Foundational First Year M.B.A. Courses (40 units)
- MGT 402 Managing for Sustainability (4 units)
- MGT 425 Marketing Management (4 units)
- MGT 315 Financial Accounting (4 units)
- MGT 404 Managerial Accounting (4 units)
- MGT 428 Business Law and Ethics (4 units)
- MGT 429 Human Resource Management (4 units)
- MGT 430 Financial Management (4 units)
- MGT 482 Management and Organization (4 units)
- MGT 432 Entrepreneurship Project (4 units)

Students may waive any course in the M.B.A. program, up to 36 credits, by having completed an equivalent undergraduate or graduate course at an accredited university and earned a grade of at least B. Students who waive at least 28 credits in the M.B.A. foundations and core courses may waive the requirement to take MGT 432 Entrepreneurship Project.

M.B.A. Second Year Core Courses (16 units)
The following courses are required of all students in this program.

- MGT 427 Operations Management (4 units)
- MGT 424 Statistics for Business and Environmental Management (4 units) or MGT 524 Data Analysis for Business Process Improvement (4 units)
- MGT 567 World Class Quality and Performance (2-4 units)
- MGT 502 Sustainable Continuous Improvement I (4 units)
- MGT 580 Sustainable Continuous Improvement II (4 units)

Electives (18 units)

With the permission of the department chair, a maximum of 8 units may be taken as courses designated 400-level or above in other departments of the University or as 300-level courses in Sustainable Living or Biology.
Electives in Sustainable Business

• MGT 414 Taxation (4 units)
• MGT 509 Performance Improvement Project (4 units)
• MGT 5310 Sustainable Technologies (4 units)
• MGT 418 Sustainable Economics (4 units)
• MGT 5312 Capstone Project (4 units)
• SL 330 Bio-Cultural Ethics (4 units)
• SL 350 Environmental Planning and Landscaping (4 units)
• SL 405 Ecology (4 units)
• SL 420 Renewable Energy (4 units)
• SL 428 Sustainable Living Workshop (4 units)
• SL 445 Environmental Law (4 units)
• SL 450 Environmental Planning and Landscaping (4 units)
• BIO 328 Ethnobotany (4 units)
• BIO 338 Organic Agriculture (4 units)
• BIO 341 Permaculture Design (4 units)
• BIO 375 Earth Science (4 units)
• BIO 405 Sustainable Global Environment (4 units)
• GOV 420 Economic Analysis of Environmental Policy (4 units)

Graduate Certificates and Specializations

A *graduate certificate* can be earned by taking 18 or more units in one of the areas of specialization listed below. A *specialization* in the M.B.A. program can be earned by taking at least 12 units in one of the listed areas.

Students who complete certificate or specialization requirements as part of the M.B.A. degree will have the certificate or specialization noted on their transcript.

Courses in Accounting and Finance

• MGT 414 Taxation
• MGT 445 Auditing 1
• MGT 471 Money and Capital Markets
• MGT 473 Cost Accounting 1
• MGT 477 Cases in Management Accounting
• MGT 551 Corporate Finance
• MGT 568 Investment Management

Courses in International Business

• MGT 469 International Business
• MGT 562 International Finance
• MGT 571 Global Supply Chain Management
• MGT 579 International Marketing
• MGT 563 International Trade and Competitiveness
- MGT 405 Cross-Cultural Communication

**Courses in Human Resource Management**
- MGT 484 Mediation and Negotiation
- MGT 501 Leading Organizational Change
- MGT 534 Career Development
- MGT 555 Needs Analysis and Program Evaluation
- MGT 566 Human Resource Strategy
- MGT 581 Employment Law

**Courses in Business Process Improvement**
- MGT 509 Performance Improvement Project (4 units)
- MGT 514 Design and Analysis of Experiments (4 units)
- MGT 524 Data Analysis for Business Process Improvement (4 units)

**Accelerated M.B.A. Programs**

Maharishi University of Management offers two accelerated M.B.A. programs. These are designed for specific types of students who have substantial experience in business, management or leadership. The accelerated M.B.A. programs therefore have special admission requirements. These programs tend to be offered in a cohort model wherein students are admitted in a batch and take the same set of courses together. The minimum of 50 units required in the accelerated M.B.A. programs is typically completed in two or two-and-a-half years of study that is mostly part-time but may have some residential or intensive classroom instruction.

An accelerated M.B.A. program has a core foundational requirement of approximately 22 units. This ensures that the M.B.A. graduates will have grasped each of the principal business functions—accounting, finance, operations, marketing, and human resource management—and that they are competent in the supporting fields of business law, business research, and information systems. The core also ensures that graduates understand the foundations of management in the Science of Creative Intelligence or Maharishi’s Unified-Field Based Management.

The elective portion of an accelerated M.B.A. is approximately 28 units and will reflect the specific needs of the target group.

**Entrance Requirements for the Accounting Professionals M.B.A. Program**

Applicants must have an undergraduate degree or equivalent and at least two years of full-time paid professional work in accounting. Preference is given to students who have an undergraduate or master’s degree in accounting, finance or business with a grade point average of 3.0 on a 4.0 scale or second division rank. English proficiency is required and will be assessed by the Maharishi University of Management Admissions Office. Applicants who do not demonstrate English fluency will be required to take the TOEFL test and score at least 550 (paper-based) or 213 (computer-based) if a student’s native
language is not English. The Graduate Management Admission Test (GMAT) is not required but is highly recommended.

Graduation Requirements for the Accounting Professionals M.B.A. Degree
To graduate with an M.B.A. degree under this option, students must successfully complete all general requirements for a master’s degree including Research in Consciousness. (Please refer to “Degree Requirements” in “Academic Policies.”) Degree requirements for the Accounting Professionals M.B.A. program are a minimum of 53 credit units, plus participation in the Research in Consciousness program.

Academic Elements
The Accounting Professionals MBA Program consists of three academic elements: (a) Foundational Studies that provide a solid interdisciplinary framework and subjects in key functional areas to build management capabilities, (b) Advanced Studies that provide opportunities to sharpen knowledge in financial or managerial accounting and related areas, and (c) Practicum Internship through co-operative accounting positions with business enterprises or NGOs to enhance applied business skills.

Beginning with the August 2008 entry group, students need a minimum of 53 units of academic credit across the three elements as follows:

• Foundational Studies (18 credits)
The Science of Creative Intelligence (4 units), MBA Forest Academy (2 units) and at least 10 units covering at least five of the six foundational subjects in business administration, i.e., marketing, accounting, finance, operations, information systems, and human resource management. In addition, students will take a course in Career Strategies (2 units) that will train students about what they need to secure a curricular practical training position.

• Advanced Studies (26 credits)
Students are encouraged to study for all four parts of the CPA or CMA exams (16 units). Additional advanced courses might include international finance, industry analysis, and lean management, and lean accounting.

• Practicum (9 credits)
At least 9 credits of MGT 598A Practicum coincident with Curricular Practical Training (CPT) in a full-time accounting-related position.)

Starting in the Spring 2009 Semester, the Department of Business Administration will offer two specialization tracks for graduates and for students currently enrolled in the Accounting Professionals Masters of Business Administration (AccMBA) program. Students may choose between a “Specialization in Lean Accounting” or a “Post-graduate certificate in Lean Accounting” depending on whether they have completed their graduation requirements for the AccMBA.
The Lean Accounting specialization requires 12 units of academic course work, after completing the regular AccMBA degree requirements. No additional on-campus study is required. The program is one year in length and Curricular Practical Training (CPT) will be authorized for that length of time. Specialization students will not graduate until they have completed the required 12 units of DE courses.

The Post-Graduate Certificate Program in Lean Accounting is open to anyone holding the AccMBA degree from MUM. Candidates must have already graduated or have completed all AccMBA degree requirements and be eligible to graduate at the next graduation date. The Post-Graduate Certificate requires 12 units of coursework. Post-graduate students must complete four weeks of full-time on-campus studies at Maharishi University of Management in Fairfield, Iowa within three months of starting the program. The program is one year in length and Curricular Practical Training will be authorized for 11 of the 12 months (Note: CPT is not authorized during the on-campus requirement).

To complete either track, the following six courses are required.
Each semester three courses will be offered on a rotating basis.
It is advised that students complete all six courses in two successive semesters.
MGT 5853: Systems for Developing Organizational Excellence
MGT 5854: Lean Management Principles
MGT 5855: Lean Accounting I
MGT 5856: Lean Accounting II
MGT 5857: Cases in Lean Management and Accounting
MGT 5858: Implementing Lean Accounting in Organizations

Entrance Requirements for the Executive M.B.A. Program
Applicants must have an undergraduate degree or equivalent and at least three years of managerial or professional work experience, preferably including at least one year supervising employees. GMAT or equivalent entrance test is recommended but not required. Acceptance is based upon the quality of prior academic performance and other forms of professional development, ability to work well with others, and achievements in one’s profession. English proficiency is required and will be assessed by the Maharishi University of Management Admissions Office. Applicants who do not demonstrate English fluency will be required to take the TOEFL test and score at least 550 (paper-based) or 213 (computer-based) if a student’s native language is not English.

Graduation Requirements for the Executive M.B.A. Program
To graduate with an M.B.A. degree under this option, students must successfully complete all general requirements for a master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of these requirements, students must complete 50 units of course work as follows:

Foundational Courses (24 units)
MGT 5001 Introduction to Management by Natural Law (2 units)
MGT 505 Principles of Business Success (2 units)
MGT 5232 Accounting for Decision Makers (2 units)
MGT 5502 Financial Management (2 units)
MGT 512 Government and Business (2 units)
MGT 5342 Human Resource Management (2 units)
MGT 5172 Data Analysis for Executives (2 units)
MGT 5202 The National Economy (2 units)
MGT 5782 Marketing (2 units)
MGT 541 Management Information Systems (2–4 units)
MGT 5181 Managing Operations for Quality and Efficiency (2 units)
MGT 510 Natural Law Based Leadership (2 units)

**Specialization Courses (26 units)**

Specialization courses are drawn from the general course catalog or developed as needed according to the interests of the group taking the Executive M.B.A.

**Entrance Requirements for the Ph.D. Degree in Management**

- M.B.A., master’s degree in a business-related field, or a master’s degree and substantial business-related work experience
- GMAT or GRE exam
- A substantial research paper as evidence of academic writing. The paper may have been submitted for required course assignments or thesis in the student's master degree program. This should be a paper written by the student alone, not a project by a team of students. Such writing samples may be accepted as substitutes for scores on GMAT or GRE.
- TOEFL score of at least 600 (paper-based) or 250 (computer-based) is required if a student’s native language is not English. English assessment by the University’s Admissions Office can be substituted for the TOEFL test. TOEFL is waived if the student has completed a degree program conducted in English.
- At least two years of professional work experience in a business is preferred.

**Graduation Requirements for the Ph.D. Degree in Management**

To graduate with a Ph.D. in Management, students must successfully complete all general requirements for the doctoral degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of these requirements, students must successfully complete the following degree requirements.

**Core Management Courses (20 units, all 5 courses are required)**

- MGT 600 Models of Organizational Excellence
- MGT 601 Organizational Behavior Theory and Research
- MGT 607 Assessment and Evaluation
- MGT 606 Socially and Environmentally Responsible Management
- MGT 655 Human Resource Development

**Research Methods (20 units, 5 courses; a maximum of 1 course may be waived by prior study; additional courses may be required by the dissertation adviser as appropriate to the student’s research)**
MGT 630 Statistical Analysis for Management Research 1  
MGT 631 Statistical Analysis for Management Research 2  
MGT 632 Statistical Analysis for Management Research 3  
MGT 635 Experimental Research Design and Philosophy of Science  
MGT 636 Qualitative Research Design

**Professional Development (6 units)**  
MGT 692 Seminar in Writing (2 units)  
MGT 693 Seminar in Teaching (2 units)  
MGT 698 Research Practicum (2 units)

**Concentration Courses (6 units)**  
MGT 605 Advanced Seminar in Management: topics will be chosen according to current research interests of students and teachers. In-depth exploration of advanced topics will prepare students for their individual research directions.

**Additional Courses**  
A student’s faculty advisory committee may require additional course work as required for the student’s dissertation research.

**Qualifying Examinations and Dissertation Research (22 units minimum)**  
MGT 689 Preparation for Comprehensive Examination (4 credits, may be repeated for credit until dissertation is completed)  
MGT 690 Preparation for Qualifying Examination (4 credits, may be repeated for credit until dissertation is completed)  
MGT 700 Preparing the Dissertation Proposal (4 credits)  
MGT 701 Dissertation Research (min. 10 credits; may be repeated for credit until dissertation is completed; 2.5 units per block)

When the qualifying examination is successfully completed, the student is advanced to Ph.D. Candidate status. When the dissertation proposal is accepted by the faculty, the student is advanced to Ph.D. Researcher status. The amount of time required to complete the dissertation varies according to the research project. A public oral presentation and defense of the dissertation is required, as is acceptance of the dissertation by the dissertation committee, the Graduate School Director, and the Library Director. (See the dissertation manual.)

**International Program Site in Beijing, China**

**Graduation Requirements for the Bachelor of Arts Degree in Management at the International Program Site in Beijing, China**  
To graduate with a B.A. in Management, students must successfully complete 166 units of course work, including units for Research in Consciousness. These units include course work accepted for transfer credit from our collaboration partner in Beijing, Overseas Chinese College (OCC) of Capital University of Economics and Business. Two years of the collaborative program will be taken while registered in Maharishi University
of Management. Fifty-four units of management courses must be completed, of which at least 28 units are taught by Maharishi University of Management.

As part of these requirements, the following course work must be completed:

**General Education Requirements taught by OCC**
- College Composition
- Pre-Calculus I
- Statistics
- Windows Application I
- Windows Application II

**General Education Requirements taught by Maharishi University of Management**
- 24 units of non-business courses. Offerings will be determined yearly by the program director.

**Required Courses in Management taught by OCC**
- Management Information Systems
- Financial Accounting
- Principles of Economics
- Business Communication Skills
- Organizational Behavior

**Required Courses in Management taught by Maharishi University of Management**
- MGT 318 Operations Management
- MGT 422 Business Economics
- MGT 425 Marketing Management
- MGT 429 Human Resource Management
- MGT 430 Financial Management
- MGT 431 Entrepreneurship
- *Plus additional units of internship and/or electives*

**An undergraduate specialization in Management Accounting is offered in Beijing, including the following elective courses:**
- MGT 440 Intermediate Accounting I
- MGT 441 Intermediate Accounting II
- MGT 445 Auditing
- MGT 449 Accounting Applications
- MGT 470 Advanced Accounting
- MGT 473 Cost Accounting
- MGT 462 Corporate Finance
- MGT 408 Preparation for Professional Examination

**Transfer to U.S. Campus of Maharishi University of Management from Beijing Campus**
Students who transfer to the Fairfield campus from our collaborative program in Beijing
must fulfill general education requirements in addition to the requirements of the business major. The general education requirements for these students will be similar to those for students who complete the bachelor degree in China, that is, 24 units of non-business courses over two years, according to the schedule that is arranged with their academic advisor. Students who transfer from China must take a writing assessment test at the Fairfield campus and will take College Composition II or College Composition I and II according their assessment results. In some cases students may need to enroll in English as a Second language before beginning their regular course work.

COURSES

Undergraduate Courses

This course provides a holistic overview of business for new management majors or students from other majors. Principles of marketing, finance, operations, accounting, and human resources are taught in the perspective of an integrated business strategy and are illustrated by lively examples from videos, case studies, guest speakers, and field trips. (4 units) Prerequisite: FOR 101

MGT 201 Business Communication Skills: Creating a Frictionless Flow of Communication between Sender and Receiver through Effective Presentations and Writing
Effective communicators are skilled at both informing and inspiring other people. This course provides instruction and practice in making oral and written presentations based on the principle that ideal communication is a frictionless flow that nourishes both sender and receiver. Topics include word processing and presentation software; library and Internet research skills; oral presentations; writing letters, reports, proposals, and manuals; and the principles of ideal communication. (4 units) Prerequisites: FOR 101, WTG 192

MGT 203 Managing Your Money: Creating Personal Financial Order for Outer and Inner Affluence
This course covers the knowledge that every individual needs to make intelligent and responsible decisions concerning personal and family finances. Topics include major purchases such as buying a home or a car, credit, insurance, investments, retirement planning, selecting careers and educational institutions, and obtaining employment. Real-world applications are structured throughout the course through personal planning exercises, field trips, and guest speakers. (2–4 units) Prerequisite: FOR 101

MGT 205 Maharishi’s Absolute Theory of Administration: Management by Natural Law — Harnessing the Infinite Organizing Power of Nature
Enlivening Natural Law in individual and collective consciousness can prevent problems
and lead to success in business and government organizations. This course provides the knowledge of how the infinite organizing power of Nature can be utilized effectively. Topics include support of Nature, fulfillment, creativity, leadership, health, and creating Heaven on Earth. (4 units) Prerequisite: FOR 101

**MGT 220 Principles of Economics: Efficiently Using Resources to Promote the Fulfillment of Individuals and Society**

In this course, students will be introduced to the operation of market-based economies. The course aims at providing an understanding of the market system as a means of fulfilling people’s desires at both the microeconomic level of individual markets and the macroeconomic level of a nation. Microeconomic topics include consumer demand for products, cost of production, and competitive and non-competitive product markets. Macroeconomic topics include GDP and other measures of national economic performance, economic growth, business cycles, unemployment, inflation, money and banking. Also, the students will be introduced to the inefficiencies in the market system, and the different kinds of government intervention used to correct imbalances. (4 units) Prerequisite: FOR 101

**MGT 315 Financial Accounting: Using the Self-Referral Mechanism of Financial Statements to Structure an Organization’s Progress and Prosperity**

Accounting systems provide financial information to guide management planning, decision-making, and control. Financial statements are essential for reporting to management, stockholders, creditors, and the government. Topics include fundamentals of bookkeeping, internal control, generally accepted accounting principles, inventory valuation, receivables and payables, depreciation, amortization, stocks and bonds, inflation accounting, and the interpretation and analysis of financial statements. (4 units) Prerequisite: MATH 153, MATH 170, or MGT 314 or 424

**MGT 345 Data Management Systems: Knowledge Has Organizing Power**

This course acquaints students with data management systems and application packages, such as spreadsheets, project management, resource management, graphics, planning, and accounting. Students use large systems packages as well as microcomputers and learn to formulate problems using these programs. In this way students are able to make maximum use of computer technology on the levels of planning, decision-making, organizing, implementation, and control. (2–4 units) Prerequisite: MGT 314 or 424

**MGT 346 Career Strategies: Choosing a Career to Maximize Inner and Outer Fulfillment**

The course has a practical focus on career discovery and implementation. In the framework of Consciousness-Based principles for success, students consider their own skills, abilities, and objectives, and learn to design a career that utilizes their talents and creativity for maximum effectiveness, achievement, and evolution. They design an action plan to implement their career goals, and then work with the best Internet resources to research occupational interests, business and service organization profiles, and industry trends. Students learn networking strategies, including interviews, and using the telephone and Internet for extending their professional networks. They also develop
scripts for introducing themselves and describing their achievements and capabilities with confidence in various formats, writing about themselves in the cover letter, resume, and portfolio, and speaking about themselves and what they can offer to potential colleagues, funding agencies and employers. (Variable credit) Prerequisite: third year of undergraduate study

**MGT 399 Directed Study**
(variable units) Prerequisite: consent of the department faculty and the Academic Standards Committee

**MGT 400 Topics in Business: Exploring the Field of All Possibilities in Business**
This course covers topics to be defined by the instructor that supplement the regular curriculum. (variable units) Prerequisite: consent of the department faculty

**MGT 401 Business Writing**
In this course students will write for different work situations and in so doing, will develop control of English. They will write effective business communications, including e-mails, memos, letters, and reports, and develop fluency and comfort in writing, and reflect on their writing experience by keeping a journal. Students will improve writing skills by learning and practicing writing strategies such as improving sentence structure, constructing paragraphs, prewriting, drafting, giving and using feedback, revising and editing. Prerequisite: FOR 101

**MGT 402 Managing for Sustainability: Maximizing the Intelligent Use of the Environment by Focusing on Environmental and Resource Policy**
Ideal for both Management and Sustainable Living students, this course shows how creating an environmentally sustainable operation can provide opportunities for increasing profits. Using case studies, students learn how to apply the core principles of sustainability in agriculture, business, manufacturing, government and other activities, so that it is both profitable and beneficial to the environment. The course is project-based and covers sustainability in all areas of society from both local and global perspectives. The role of ISO 14001, responsible investing, and environmental advocacy organizations, in the transition to sustainable living, will be made clear. Students will interact with city and industry leaders and managers to create budget and return-on-investment projections for transformation to sustainable practices. (4 units) Prerequisite: FOR 101

**MGT 403 World Peace Project: Applying the Consciousness-Based Approach to Peace**
During this project, the student connects the knowledge gained from the other four or more courses, by answering the theme question: How does the Consciousness-Based Approach to Peace bring peace to the individual, the nation and the world? Each student creates a contract with the faculty advisor to design a unique response to this question, and meets on a regular basis to show progress on the project. This course is taken as a formal class when 10 or more students are enrolled in it during any block. This project may also be done, with faculty approval, in the context of a preparation course for a peace conference at Maharishi University of Management or at another site. (4 units)
MGT 404 Managerial Accounting: Creating Self-Referral Feedback Mechanisms to Provide Data for Informed Decision-Making
This course provides analytic tools and techniques to assist management in planning, decision-making, and control. Topics include cost-volume-profit analysis, manufacturing costs, job order and process costing, standard costing and variance analysis, variable and full costing, fixed and flexible budgets, responsibility accounting, direct and absorption costing, and the behavioral implications of management accounting systems. (4 units) Prerequisites: MGT 315 or MGT 426 and MGT 314 or 424

MGT 405 Cross-Cultural Communication: Being at Home Everywhere and in Every Situation — “The World Is My Family”
Expansion of consciousness gives rise to an appreciation of the finest qualities of those around us, and we develop a natural graciousness. But in order to feel confident that we are not inadvertently making someone uncomfortable, we need to master the basic rules of etiquette. In this global age students need to understand the differences in etiquette they may encounter as their professional lives bring them into contact with other cultures. This course will explore the laws of nature underlying courteous behavior revealed by Maharishi Vedic Science. It will also cover rules of etiquette that apply in everyday interactions, special occasions, the workplace, entertaining and traveling in the United States and in other countries. Students will have an opportunity to practice what they learn not only in role-play, but also by actually preparing for and hosting a formal meal for their classmates. Prerequisite: FOR 101

MGT 408 Preparation for Professional Examination
Examinations administered by professional associations provide a standard assessment of learning in specific professional areas. This course provides an opportunity for students to review the material covered by specific professional examinations and to practice taking sample examination questions. (4 units)

MGT 410 Personal Computer and Internet Essentials
Tools for accessing, organizing, and expressing knowledge in every discipline. This course is designed to provide students with a basic and comprehensive level of computer literacy that will enhance their college studies and serve as a foundation for the more specific computer skills that their field of specialization may demand. This will be a hands-on course in which students work with a full range of software and hardware to ensure basic competency to create multimedia presentations, websites, word processing, spreadsheets, Web-based scholar level research and effective electronic communications. Topics will vary to ensure current content in the latest techniques and tools of the evolving social Web. In addition to the hands-on experience, students will learn enough about personal computer history, hardware, and terminology to be an intelligent consumer of computer hardware and software. Class size may be limited. (2 units) Prerequisite: FOR 101
MGT 414 Taxation: Calculating the Individual and Corporate Contribution to Government Activities to Bring Fulfillment to the Goals of Society
State and federal taxation are instruments of social policy. The principles of taxation must be considered in the planning and decision-making process of every organization whether profit or nonprofit. This course surveys basic tax concepts and their use in individual and organizational tax planning. Topics include social policy implications of taxation, concepts of income, tax reporting, taxpaying entities, deductions, property transactions, and gain or loss recognition. (2–4 units) Prerequisite: WTG 192

MGT 418 Sustainable Economics: Increasing the Flow of Wealth through Attunement with the Laws of Nature
Many of the old models used in both micro and macro economics are based on a world view that is not sustainable. Students will learn the new models that are emerging as the standards for life in a sustainable civilization—these include local living economies, alternative monetary systems, ecological economics, other forms of capital such as environmental, human, social and organizational—students will use these concepts to design a society that mimics nature and does not consume and discard the resources upon which true wealth is based. (4 units) Prerequisite: FOR 101

MGT 419 Microeconomics: Maintaining Economic Balance for Maximum Evolution of the Individual and Society
Microeconomic principles are fundamental to many theoretical and applied areas of management, such as operations research, marketing, accounting, finance, production management, and many areas of public management and policy. Topics include consumer choice, consumer demand, supply and demand analysis, cost analysis, marginal analysis, output and pricing decisions, market structure, competition, wages, taxation, and resource allocation decisions. (4 units) Prerequisite: FOR 101

Macroeconomics studies the principles governing the behavior of the national economy and its interaction with other economies. It analyzes the context within which every business or organization must function. Topics include aggregate supply and demand analysis; fiscal and monetary policy; money and banking; Keynesian, monetarist, and supply-side economics; the business cycle and macroeconomic forecasting; economic growth; international trade; the international monetary system; economic development; and comparative economic systems. (4 units) Prerequisite: FOR 101

MGT 422 Business Economics: Principles Governing the Dynamics of Markets and Industries for Sustainability, Prosperity and Progress in the National and Global Economy
Business economics focuses on the principles governing the dynamics of markets and industries as well as those governing the behavior of the broader national and global economic environment. It examines principles of economic decision-making, and optimal use of economic resources. The most precious resource of every nation is its people, each with infinite creativity inherent within them. Topics include the dynamics of market
supply and demand, industry structure and competition, the economics of business strategy, money and interest rates, and the international economy and exchange rates. Students apply the principles to case studies and complete an industry analysis for the business plan. (4 units) Prerequisite: FOR 101

**MGT 423 Business Communication Skills: Creating a Frictionless Flow of Communication between Sender and Receiver by Improving Writing and Presentation Skills**

Effective communicators are skilled at both informing and inspiring other people. This course provides instruction and practice in making oral and written presentations based on the principle that ideal communication is a frictionless flow that nourishes both sender and receiver. Topics include word processing and presentation software; library and Internet research skills; oral presentations; writing letters, reports, proposals, and manuals; and the principles of ideal communication. (4 units) Prerequisite: WTG 192

**MGT 424 Statistics for Business and Environmental Management: Discovering the Orderly Patterns and Relationships at the Basis of Nature’s Functioning**

Statistics offers powerful quantitative tools based on the underlying orderliness of Nature to enhance decision-making in business and environmental management. Statistics is the art and science of finding meaningful patterns and relationships in data (data analysis), generating useful data (data production), and drawing valid conclusions based on data (statistical inference). The goal of this course is for you to be able to gain insight and draw conclusions from business and environmental data using graphical and numerical tools of data analysis and to be able to intelligently discuss the validity of your conclusions. Environmental applications will be emphasized. Topics include: graphical and numerical tools for summarizing and describing data, modeling data with probability distributions, sampling and surveys, designing experiments, estimating unknown means and proportions, testing hypotheses about means and proportions, modeling relationships using regression analysis and correlation. (4 units) Prerequisite: MATH 153 or MATH 170

**MGT 425 Marketing Management: Creating a Positive Influence to Attract, Satisfy, and Retain Customers**

Marketing is the process of creating exchanges that satisfy individual and organizational objectives. Topics include consumer behavior, market research, market segmentation, competitive positioning and strategy, advertising, pricing, distribution and channel management, selling techniques and sales force management, and new product development. Students conduct an industry analysis and write the marketing section for their business plan. (4 units) Prerequisites: MGT 314 or 424, MATH 200, and WTG 192

**MGT 426 Accounting for Decision-Making: Using Accounting Tools for Self-Referral Knowledge to Sustain the Business Enterprise**

Through its conceptual framework, accounting provides organizational feedback loops for planning, implementation, and control. Continued organizational success depends upon the clarity of awareness of both the accountant and the decision maker. Topics include the conceptual framework of accounting; interpretation and analysis of financial
statements; cash flow statement; budgeting and financial control; cost-volume-profit analysis; standard costing and variance analysis; responsibility accounting; and the behavioral implications of management accounting systems. Students create a master budget and a sequenced break-even analysis for their business plan. (4 units) Prerequisite: MATH 153 or MATH 170

**MGT 427 Operations Management: Managing an Organization’s Inputs, Transformations, and Outputs to Structure Automation in Administration**
Operations management is concerned with the process of transforming inputs into higher-value outputs with maximum efficiency. Topics include process design; quality management and control; lean production; supplier certification; capacity planning, facilities, and scheduling; and inventory management including materials requirements planning. Students research facility and personnel requirements, along with production and delivery plans including milestone dates for their business plan. (4 units)
Prerequisite: MBA program or consent of the department

**MGT 428 Business Law and Ethics: Learning to Act in Accord with Natural and National Law — Supporting Business Interactions through Contracts, Torts, and Agency Law**
Law is a tool of progress. It establishes the body that is the business and enables business people to communicate frictionlessly, to manage the relationships between all participants, and to avert any problems before they occur. A business is then able to maintain progress for itself and for society. Topics include contracts, torts, and agency law; property, including intellectual property; employment issues; and global business law. Students determine and complete a form of business organization, necessary property agreements, and a financing plan for their business plan. (4 units)
Prerequisite: FOR 101

**MGT 429 Human Resource Management: Designing Systems to Attract, Retain, Motivate, and Nurture the Organization’s Most Precious Resource**
People are an organization’s most important asset. Success comes from organizing and managing people to produce the products and services that customers value. This survey course exposes students to the full array of human resource functions: human resource planning, recruitment and selection, training, performance management, compensation, unions, and upholding employer/employee rights and responsibilities. The students become familiar with the role of human resource department staff in designing human resource systems, as well as the critical role line managers and supervisors play in using these systems effectively to attract, retain, and motivate employees. Students also design a comprehensive human resource section for their business plan. (4 units)
Prerequisite: FOR 101

**MGT 430 Financial Management: Intelligently Directing the Flow of Funds to Achieve the Organization’s Strategic Goals**
Financial management provides an intelligent direction to the flow of funds for maximizing firm value. This course introduces techniques and concepts necessary to effectively manage the financial resources of any organization in order to achieve
strategic goals. Topics include the time value of money, stock and bond valuation, risk and return, capital investment decisions, analysis of financial statements, financial forecasting, working capital management, the investment banking process, and the sources of funding for a business. Students will develop capital requirements, plan the raising of capital, and develop a cash flow design for their business plan project. (4 units) Prerequisites: MGT 315 or MGT 426 and MGT 314 or 424, WTG 192

MGT 431 Entrepreneurship: Harnessing Nature’s Infinite Creativity to Plan and Start a Sustainable Business
Principles of management, marketing, finance, operations, and accounting are taught from the perspective of starting a new business with an integrated business strategy. Students articulate their personal and business goals and produce an initial business plan. (4 units) Prerequisite: MGT 200

MGT 432 Entrepreneurship Project: Integrating the Principles of Management to Start a Sustainable Business
This capstone course enables entrepreneurs or intrapreneurs to dynamically integrate the knowledge of the Entrepreneurship Module in the creation of their business plan to manifest their intention. Students evaluate sample business plans, review and give feedback on classmates’ business plans, and revise and present their own business plan to faculty and mentors. (4 units) Prerequisites: MGT 200, MGT 425, MGT 430, and WTG 192

MGT 433 Strategic Marketing: Utilizing Cycles of Rest and Activity for Maximum Progress for the Organization
This course focuses on the dynamics of developing a marketing strategy and plan essential for subsequent levels of marketing implementation. Topics include business definition, strategy evaluation, the planning process and plan development, implementation of marketing plans, and comparison of differing approaches to strategic marketing planning. The course makes extensive use of case readings and a computerized strategic marketing simulation. (2-4 units) Prerequisite: MGT 424 or MGT 424

MGT 440 Intermediate Accounting 1: Developing Broad Comprehension of Accounting Principles and Sharp Focus in their Application for an Accurate Financial Statement
MGT 441 Intermediate Accounting 2
MGT 442 Intermediate Accounting 3
This course sequence provides a technical analysis of how generally accepted accounting principles (GAAP) are applied in the presentation of published financial statements. The interplay of government, the accounting profession, and the conceptual framework of accounting at the basis of formulating GAAP demonstrate how collective consciousness interacts within itself to create steps of social evolution. References are made to technical statements and pronouncements that are the sources of GAAP, covering a variety of specific topics such as accounting for leases, pensions, and inter-period income tax. (4 units) Prerequisite: for MGT 440 — MGT 426; for MGT 441 — MGT 440; for MGT 442 — MGT 441
MGT 445 Auditing 1: Ensuring an Organization’s Alignment with National and Natural Law

MGT 446 Auditing 2
This course sequence focuses on the legal and ethical responsibilities associated with the auditor’s report and the technical aspects of auditing a firm’s financial statements. By ensuring the reliability and fairness of published financial statements, the audit function plays a necessary role of vigilance for better-informed investment and credit decisions and, thus, a healthier economic system. Related topics include statistical sampling methods, auditing internal control systems and computerized accounting systems, and working papers and evidence preparation. (2–4 units) Prerequisite for MGT 445 is MGT 442. Prerequisite for MGT 446 is MGT 445.

MGT 449 Accounting Applications: Using Computerized Accounting Systems to Do Less and Accomplish More
Modern financial management utilizes computerized accounting packages for efficient record keeping, safeguarding of assets, customer service, and financial analysis. This course reviews current computerized accounting packages and applies them to case situations. (2–4 units) Prerequisite: MGT 426

MGT 459 International Finance: Maintaining Cultural Integrity While Promoting Global Prosperity through the International Monetary System and Foreign Exchange Markets
This course provides an introduction to the theory and practice of financial management in an international context. Topics include the international monetary system, the foreign exchange market, forecasting foreign exchange rates, management of foreign exchange exposure, international investment, and political risk management. (4 units) Prerequisites: MGT 314 or 424, MGT 315, MGT 430

MGT 462 Corporate Finance: Using Quantitative Tools to Direct Corporate Resources for Strategic Success
This course examines quantitative tools for intelligent management of corporate finances, including: optimum capital structure, analysis of portfolio and risk management, dividend policies, and critical issues related to mergers and acquisitions. Investment decision analysis topics include discounted and non-discounted cash flow analysis, ranking investment projects, income tax implications, and risk analysis. Students discover how various quantitative tools empower decision-makers with broad awareness that sharpens the ability to focus on key variables. (4 units) Prerequisite: MGT 430

MGT 469 International Business: Adapting Management Principles to Uphold Cultural Integrity in a Global Environment
This course explores the issues of marketing, finance, and management, as they exist in the international business environment from both a multinational corporate perspective and a single businessperson orientation. Differences between business practice in the U.S. and abroad are explored where those differences affect business objectives. Cultural, economic, governmental, and demographic issues are studied in a case- and lecture-
MGT 470 Advanced Accounting: Deeper Principles for Consolidations and Other Special Situations in Financial Accounting
The emphasis of this course is on the mechanics of consolidations required for many major corporations, and on a variety of special situations in financial accounting. The course illustrates how technical accounting requirements differ for diversified corporations just as the laws of nature are different in different geographic and climatic environments. Specific topics include consolidations, accounting of foreign transactions, branches, segments, partnerships, and governmental units. (4 units)

MGT 471 Money and Capital Markets: Viewing the Flow of Funds through Banks and Other Financial Institutions as the Flow of Consciousness within Itself
This course provides an introduction to the instruments, markets, and institutions of the financial sector of the economy. Some topics included are financial instruments, interest rates and bond prices, the structure of interest rates, flow of funds analysis, commercial banking, non-deposit depository, and insurance financial intermediaries. (2–4 units)
Prerequisites: MGT 420 and MGT 430

MGT 473 Cost Accounting 1: Using Data Analysis to Control Costs for Accurate Self-Referral Knowledge and Maximum Productivity
This course develops knowledge of how to create internal reporting systems that promote more efficient business operations. Topics include standard costing, variance analysis, cost-volume-profit analysis, budgeting and motivational aspects of using data to evaluate individual and team performance. (4 units)

MGT 474 Marketing Research: Using Data Analysis to Identify Trends in Collective Consciousness and Assess Support for New Business Ideas
Market research is the first activity that should be conducted when contemplating a new business or governmental activity. It is the means for refining an initial idea to a concept that is maximally supportable by the environment. The course covers specification of information needs, research design methods, sources of marketing information, analyzing and interpreting data, and developing evaluation and feedback systems. (4 units)
Prerequisites: MGT 425 and MGT 314 or 424, WTG 192

MGT 475 Global Strategic Management: Identifying and Developing Organizational Strengths to Take Advantage of Global Opportunities and Create a Problem-Free World
This course integrates the knowledge gained in the management major through a wide range of case studies, current readings, and strategic projects. Students practice strategic analysis and develop recommendations for the future success of an organization. Topics include strategic management models; strategic audits, evaluation, and control; social responsibility; external and internal environments; and strategy formulation and implementation. (4 units) Prerequisites: MGT 432, MGT 430, and MGT 425
MGT 476 Accounting for Governmental and Nonprofit Entities: Using Accounting Principles to Maximize the Resources of Non-Business Organizations to Promote the Evolution of Society
The objective of this course is to learn accounting theory and practice as applied to “non-business organizations” with emphasis on fund accounting. “Non-business organizations” is a collective term that refers to governmental units as well as all other nonprofit organizations such as schools, colleges, universities, hospitals, and voluntary health and welfare organizations. Areas covered include the legal environment; budgets for revenue, expenditures, and encumbrances; and management of resources, funds, and groups of accounts. (2-4 units) Prerequisite: MGT 426

MGT 477 Cases in Management Accounting: Organizing Power Springs from Self-Referral Activity
In this M.B.A.-level course, students review key concepts in managerial and cost accounting and then proceed to graduate level case studies in selected topics. The case study method will be presented as a flexible learning modality that can be utilized for class discussions, small group and individual papers, and management presentations. Topics may include responsibility accounting, variance analysis, capital budgeting, incremental analysis, special decision-making, and a variety of management issues. From the perspective of Vedic Management, students will discover how organizing power springs from the collapse of attention in the gap between actual and budgeted performance. Prerequisites: financial and managerial accounting. (2 units)

MGT 478 Advertising: Creating Awareness in the Consumer of the Fulfilling Qualities of the Company’s Product or Services
This course explores the approaches to effective advertising necessary for achieving sales and market share objectives. Topics include review of consumer behavior and buying patterns, differences between individual and corporate buying, defining objectives, expenditure analysis, media selection; and the design, management, and evaluation of advertising programs. (2–4 units) Prerequisite: MGT 425

MGT 479 International Marketing: Fulfilling the Evolutionary Impulse of Life by Designing and Delivering Products and Programs That Bring Fulfillment to the Diverse Needs of a Global Marketplace
This course examines the development of international marketing programs, from the determination of objectives and evaluation of international market opportunities through the coordination of strategies in world markets. It emphasizes the application of basic marketing principles in the multinational environment, the extent of standardization of marketing programs across several countries, and the selection of appropriate entry strategies for foreign markets. (4 units) Prerequisite: MGT 425

MGT 480 Improving Business Processes: Nature's Law of Least Action
This course covers the theory and practice of performance improvement in both large and small organizations in the manufacturing and service sectors so that they operate in accordance with all the laws of nature. The focus will be on using lean thinking to transform every activity in an organization to deliver customer value. Students will
explore how to extend the principles, rules and tools of lean thinking to achieve improvement in quality, reduction of costs, and maintenance of customer delight. The course uses a combination of interactive classroom instruction and project-based learning. Students will apply their growing creativity to help business processes align with Nature's law of least action to produce sustainable organizations that are green and lean.

MGT 482 Management and Organization: Expanded Consciousness Is the Basis of Ideal Behavior at the Individual, Team, and Organizational Levels
An understanding of the principles of human behavior at the individual, interpersonal, group, and organizational levels of analysis is critical to successful planning, organizing, and implementation by any manager. This course explores the dynamics of individual and group achievement from the perspectives of both skills and theory. Topics include general management theory, leadership, delegation and coordination, planning and problem solving, organizational structure, and organizational change. (4 units)
Prerequisite: MGT 200

MGT 484 Mediation and Negotiation: Utilizing the Deepest Principles of Human Nature to Create Win-Win Solutions
This course is a survey of negotiation, mediation, and arbitration methods of resolving disputes without litigation. Students gain practical negotiation skills through workshops and case studies. Topics include understanding other parties, building a productive framework for negotiation, defining objectives and strategy, framing proposals, and finding “win/win” solutions. (2–4 units)

MGT 494 Investment Management: Profiting from the Principle That the Nature of Life Is to Grow
Successful investing provides enormous rewards in terms of freedom and financial security. Investing is a process of using capital or money to increase individual or corporate net worth. Topics covered include how to use equity and debt securities, options and futures, and modern portfolio theory to develop strategic and tactical capabilities. Students will create a model portfolio based on both fundamental and technical analyses of current and historical market conditions and will read books from leading investors and benefit from guest lecturers. Prerequisite: FOR 101

MGT 497 Fieldwork in Management: Developing Skill in Action
This course provides students with the opportunity to relate theoretical management principles to practical issues through contact with individuals and organizations outside of the university setting. With the supervision of the faculty, students develop and implement projects. Projects may include lecturing, consulting, writing, and developing courses or programs to be presented to selected audiences. (variable units) Prerequisites: consent of the department and written authorization for Curricular Practical Training

MGT 498 Curricular Practical Training (CPT) Internship in Management: Integrating Knowledge and Experience to Develop Skill in Action
This course offers practical experience through work in business administration, public
administration, or educational administration. Students maintain journals that record their growth in understanding and experience, as well as their impact on the organization. (4 units) Prerequisites: consent of academic advisor and written authorization of international student advisor

**MGT 499 Directed Study**
(variable units) Prerequisite: consent of the department faculty

### Graduate Courses

**MGT 5001 Introduction to Management by Natural Law: Managing Oneself to Engage the Managing Intelligence of Nature**

This course introduces participants to the fundamental themes in the MBA program. We locate the source of every person’s creative intelligence in the most settled state of their consciousness and learn, through understanding and direct experience, how the full potential of consciousness can be unfolded in a simple and natural manner. We explore the implications for innovative thinking, personal health, interpersonal behavior and coherence in organizations and society. Key ideas in the course are grounded in empirical research and illuminated by the unified understanding of Natural Law that is emerging from modern physics. (2 units)

**MGT 501 Leading Organizational Change: Creating an Ideal Society**

Leadership means accomplishing through others. Implementing successful change in organizations requires process skills in facilitating the performance of individuals and teams. The development of coherence in the collective consciousness of the organization provides for frictionless flow of communication and implementation. Topics include change management skills; life cycle of the consulting process; motivation for performance improvement; individual, interpersonal and team behavior; negotiating collaborative solutions; organizational learning; and the role of training in strategy implementation. (2–4 units)

**MGT 502 Sustainable Continuous Improvement I: Business Activity in Accord with Nature’s Law of Least Action**

This course covers the theory and practice of performance improvement in both large and small organizations in the manufacturing and service sectors so that they operate in accordance with all the laws of nature. The focus will be on using lean thinking to transform every activity in an organization towards sustainable operations. Students will explore how to extend the principles, rules and tools of lean thinking to achieve sustainability along with the improvement in quality, reduction of costs, and maintenance of customer delight. The course uses a combination of interactive classroom instruction and project-based learning. Students learn how to align operations along the value stream in any organization, how to improve efficiency, enliven creativity, and so achieve real sustainability. They will understand how to structure ongoing incremental improvement so that performance improvement becomes part of the shift to sustainability. (4 units) Prerequisite: MGT 567
MGT 503 Managerial Communication Skills: Establishing Sender and Receiver on the Ground of Nature’s Infinite Correlation
This course develops effective written and oral communication in diverse management situations. The course perspective is that of the manager in a multi-national organization and the course context is communication in the global marketplace. The course focus is on the impact of messages on receivers both internal and external to the organization. Students gain familiarity with communication technologies and message channel choices. The development of coherence in collective consciousness provides for frictionless and distortion-free flow of communication. (2-4 units)

Knowledge is the basis of action, action is the basis of achievement, and achievement is the basis of fulfillment. This course surveys the fundamental knowledge of management through the key ideas of the various business functions as they relate to the holistic knowledge of the Unified Field of Natural Law, which is the essence of all disciplines. Students experience the integration of marketing, finance, operations, accounting, and human resources either by managing a computer-simulated business over eight “years” or by researching a company. Understanding of that experience comes through readings, lectures and class discussions. (2 units)

MGT 5052 Survey of Management Thought: Unifying the Foundations of Management
In this survey course we review the classic works in management by writers such as Sloan and Drucker on leadership and organizational change and pursue contemporary themes such as lean management, activity-based costing, world-class customer service, the balanced scorecard and triple bottom-line, and managing employee performance. The course includes training in behavior-based interviewing and creative recruitment practices from the point of view of the job seeker and the employer. (2 units)

MGT 510 Natural Law-Based Leadership: Developing Higher Consciousness for Greater Responsibility and Leadership
The qualities and principles of ideal leadership are identified, examined, and developed through the examples of great leaders. This course provides the opportunity to measure how the dynamic executive in both the public and private sectors can apply management principles. (2–4 units)

MGT 512 Government and Business: Government Regulations Guiding Business to Act in Accord with the Best Interests of the Individual and Society
This course presents the legal aspects of business organizations and business behavior and the regulatory environment in which business operates. It involves a study of the societal forces behind the law and the role of administrative agencies in the government’s regulation of business. Topics include contracts, sales, agency, business associations, property, securities regulation, antitrust law, environmental law, consumer law,
intergovernmental relations and corporate political activity, and employment law. (2-4 units)

MGT 513 Business Law and Taxation for Accountants: Functioning within the Legal Environment of Business for Maximum Success
This course examines key legal concepts (e.g., torts, contracts and negotiable instruments) that may affect the work of management accountants in the USA. In addition, students will be exposed to basic personal and corporate income tax laws and tax preparation forms. Students explore this course in the light of the relationships between man-made, national laws and the eternal principles of Natural Law that underlie them. (2–4 units)

MGT 514 Design and Analysis of Experiments: Harnessing the Knowledge and Organizing Power of Natural Law for Quality Improvement
Students will learn how to plan, execute, and analyze experiments in business, science, and engineering. Planned experiments provide a systematic method for determining cause and effect relationships in any system or process and building a mathematical model of the system. In business and engineering, these methods are widely used for improving the performance of manufacturing and other business processes, improving product and process quality and design, and marketing research. Topics include two-level factorial experiments, “screening experiments” to identify the most important system variables (fractional factorial experiments), one-way and factorial comparative experiments, blocking, system modeling with multiple regression methods, “optimization experiments” and principles of robust design. Prerequisites: MGT 424 or MATH 353 (or equivalent) and permission of instructor.

The course explores the fundamental laws of nature that structure success in financial accounting. Content covered includes knowledge of alternative business organizations, economic concepts, financing and working capital, information technology, and management accounting. Topics covered in CPA Exam Part 1. (4 units)

As independent auditors, CPAs verify the fairness of corporate financial statements and thereby enhance the confidence of those making investment decisions. Auditors play the role of the Second Element by dispelling doubts about the truthfulness of financial statements. Topics include audit engagement planning, verification and testing of internal controls, and evidence sampling, collection and testing. In addition, the various types of audit report formats are examined. Topics covered in CPA Exam Part 2. (4 units)

MGT 5153 GAAP for Financial Accounting: Reflecting Collective Coherence in the Field of Accounting
Students explore and gain the knowledge of generally accepted accounting principles (GAAP) for business enterprises, not-for-profit organizations, and governmental entities,
and the skills needed to apply that knowledge. GAAP is seen as a reflection of collective consciousness that specifies rules for financial reporting. Topics covered in CPA Exam Part 3. (4 units)

MGT 5154 Ethical & Regulatory Environment for Financial Accountants: Following the Path to Right Action
Man-made laws are created to restore the path to right action and meet social needs. In this course, students gain knowledge of legal and ethical responsibilities required for professional accountants. Topics include business law concepts (such as contracts and agency) as well as specific laws (such as the Sarbanes-Oxley Act). In addition, the course covers federal taxation for individuals, partnerships and corporations. Topics covered in CPA Exam Part 4. (4 units)

MGT 5155 Lean Management and Organizational Excellence: Utilizing Nature’s Principle of Least Action to Improve Organizational Performance and Productivity
This course examines key principles and methods of creating and sustaining performance excellence in both service and manufacturing organizations through application of the “Lean Enterprise” and “Lean Six Sigma” performance-improvement systems. Best practices of world-class companies will be examined through readings, case studies, and management simulations. Topics include: principles and practices of lean management as developed by Toyota; Lean Six Sigma; value stream mapping; simplifying business processes and reducing the seven types of waste; identifying performance metrics; kaizen events and other approaches to business process improvement; lean accounting; application of lean management to environmental management and sustainability. (4 units)

MGT 516 Managerial Accounting: Creating Self-Referral Feedback Mechanisms to Provide Data for Informed Decision-Making
Managerial accounting provides analytic tools and techniques to assist in planning, decision-making, and control. Topics include differential accounting, cost-volume-profit analysis, job order and process costing, standard costing and variance analysis, variable and full costing, budgeting and control systems, transfer pricing, responsibility accounting, and the behavioral implications of management systems. (4 units)

MGT 5162 Preparation for Certified Management Accountant Exam (4 units, may be repeated for up to 16 credits)

MGT 5163 Preparation for Certified Public Accountant Exam (4 units, may be repeated for up to 16 credits)

MGT 5172 Data Analysis for Executives
This course introduces experienced managers to the elements of statistical analysis for decision making, showing how knowledge is the basis of action, achievement and fulfillment. The tools of data analysis enable managers to transform raw data into useful knowledge in every functional area of business by identifying meaningful relationships between decisions and outcomes. Topics include the elements of probability, numerical
and graphical tools for describing and analyzing business data; hypothesis testing for business decisions; and regression analysis for modeling and forecasting. (2 units)

MGT 5181 Managing Operations for Quality and Efficiency: Managing an Organization’s Inputs, Transformations, and Outputs to Structure Automation in Administration
Through its operations, a business transforms inputs into higher-value outputs. This course shows experienced managers how operational processes differ across types of businesses and how the operations function is related to the other business functions—marketing, accounting, finance, and human resources—through decisions about product design, quality management and control; capacity planning and resource scheduling; and inventory management. (2 units)

MGT 5202 The National Economy: Adapting Economic Principles to Maintain Cultural Integrity
This course introduces managers to the dynamics of the national economy as it affects business activity and as it is influenced by business and governmental decisions. Topics include aggregate supply and demand analysis; fiscal and monetary policy; money and banking; the business cycle and macroeconomic forecasting; economic growth; international economic relations, and national economic development. (2 units)

MGT 523 Quantitative Analysis for Management: Harnessing Nature’s Organizing Power by Using Computer Technology to Support Decision-Making
This course covers the most practical quantitative tools for business, including multiple regression for marketing research, linear programming for production planning, and decision analysis for strategic planning. Models are typically solved using special computer programs. (4 units) Prerequisite: MGT 424

MGT 524 Statistics for Business Process Improvement: Knowledge has Organizing Power
Students will learn key principles of data analysis and statistical thinking that underlie contemporary management approaches to improving business performance and quality, such as the Six Sigma and Lean Six Sigma system employed by leading companies worldwide. Topics include: review of one- and two-sample hypothesis tests for means and proportions; quantifying process performance using process capability analysis; statistical process control; modeling relationships using bivariate and multiple regression; and improving performance through process experimentation, including two-level factorial experiments, general factorial experiments, and fractional-factorial screening experiments. Prerequisite: Math 153 or equivalent (4 units)

MGT 525 Statistics for Public Administration and Policy Analysis: Improving Public Decision-Making through Gaining Knowledge of the Order at the Basis of All Change. This course presents an applied introduction to key statistical principles, concepts and methods that will help public managers and policy analysts more effectively evaluate public programs and improve public decision-making. Topics include: research design for public administration and policy analysis; conceptualization and measurement;
performance measurement; data collection, with an emphasis on sampling and surveys; graphical, tabular and numeric tools for describing and visualizing data; hypothesis testing using chi-square tests; measures of association; t-tests for comparing sample means; discovering relationships through bivariate and multiple regression analysis; logistic regression; time series analysis and forecasting; conceptual survey of advanced techniques. (4 units)

MGT 531 Sustainable Technologies: Manifesting the Channels of Wholeness
Students explore the rapidly growing field of emerging technologies—including products in the domains of renewable energy, transport, construction, biomimicry, natural waste water treatment and many others—in order to select one that they will go deeply into during their capstone project. (4 units)

MGT 5312 Capstone Project: Integrating the Knowledge and Skills of Sustainable Business
Students will be guided by faculty in the development of a complete business plan for launching and/or running a sustainable business of their choice. The project will include sufficient real data to allow students to secure the funding and other resources for implementing the model that they develop. (4 units)

MGT 534 Career Development: Planning a Professional Life in Accord with the Laws of Nature
In this course, graduate students explore professional options in their chosen fields. In light of Maharishi’s Consciousness-Based principles of success, students conduct occupational research, locate Internet and networking resources, interview successful professionals, and design an action plan and effective strategies for achieving their next career target. They also develop scripts for introducing themselves and describing their achievements and capabilities in various formats, including writing cover letters, resumes, and portfolios, and speaking to potential colleagues, funding sources, and employers. (variable units)

MGT 5342 Human Resource Management: Designing Systems to Attract, Retain, Motivate, and Nurture the Organization’s Most Precious Resource
People are an organization’s most important asset. Success comes from organizing and managing people to produce the products and services that customers value. This survey course exposes students to the full array of human resource functions: human resource planning, recruitment and selection, training and development, performance evaluation, and compensation. Topics include the legal rights and responsibilities of employers, employees, and unionization. (2 units)

MGT 535 Needs Analysis and Program Evaluation: Utilizing Self-Referral Mechanisms to Improve Performance
Human resource development involves identifying the specific requirements of client organizations and constructing evaluation procedures that accurately document instructional outcomes. Topics include roles in needs analysis; methods of organizational analysis, operational analysis, and job analysis; specifying objectives and outcome
measures; and reporting and using evaluation data. Students apply the techniques of this course in performing the front-end analysis for a project with an actual client. (2–4 units)

**MGT 536 Training Design: Creating Optimal Learning Opportunities to Fulfill Organizational Goals**

The design of effective training programs involves providing learning opportunities that are consistent with learner needs and organizational objectives. This course develops skills in designing instructional programs and materials, and delivery of training. Students apply the skills and understanding gained in the course in a project with an actual client. (2–4 units)

**MGT 540 Enterprise Applications: Utilizing Technology to Model Nature’s Efficiency**

Wide applications are increasingly using the Internet to integrate front — and back — office operations and internal and external supply chains. Enterprise Resource Planning (ERP) systems connect financial, manufacturing, and human resource operations into one system. Supply Chain Management (SCM) systems link their customers’ organizations to the distribution partners, banks, and transportation operations in real time. This course will explore the features of a major enterprise application package and the process of implementing a vendor package for a specific client. (2–4 units)

**MGT 541 Management Information Systems: Utilizing the Principle That Action Anywhere Is Felt Everywhere**

Students explore basic concepts of accounting system design and development, including terminology related to systems, networks, electronic commerce, and ERP systems. This course develops hands-on skills with software programs utilized by management accountants including Excel spreadsheets, Access databases and PowerPoint presentations. Students will learn advanced tools such as how to use Excel pivot tables, a technique for extracting and analyzing data with greater insights. (2–4 units)

**MGT 5502 Financial Management: Intelligence Gives an Evolutionary Direction to Change**

This course for experienced managers reviews the basic ideas of discounted cash flow analysis and then covers Sharpe’s CAPM explanation of investors’ expected rate of return with applications to share pricing and share issuance. Principles of financial decision-making and capital budgeting are taught using cases and examples. (2 units)

**MGT 551 Corporate Finance: Using Quantitative Tools to Direct Corporate Resources for Strategic Success**

This course examines quantitative tools for intelligent management of corporate finances, including: optimum capital structure, analysis of portfolio and risk management, dividend policies, and critical issues related to mergers and acquisitions. Investment decision analysis topics include discounted and non-discounted cash flow analysis, ranking investment projects, income tax implications, and risk analysis. Students discover how various quantitative tools empower decision-makers with broad awareness that sharpens the ability to focus on key variables. (4 units) Prerequisites: MGT 314 or 424, MGT 315,
MGT 562 International Finance: Maintaining Cultural Integrity While Promoting Global Prosperity through the International Monetary System and Foreign Exchange Markets
This course provides an introduction to the theory and practice of financial management in an international context. Topics include the international monetary system, the foreign exchange market, forecasting foreign exchange rates, management of foreign exchange exposure, international investment, and political risk management. (4 units)

MGT 566 Human Resource Strategy: Utilizing the Company’s Most Precious Resource to Improve Productivity and Achieve Success
This course provides general managers with an understanding of key human resource factors needed to formulate integrated HRM systems that can support business strategies and provide a competitive advantage. Students learn about the processes that explain work behaviors, and how to promote behaviors to implement focused business strategy using staffing, development, and reward systems. The course shows how development of individual and collective consciousness produces effective HRM. Case studies and HR planning exercises relate the course to the students’ business goals. (2–4 units)

MGT 567 World-Class Quality and Performance: Improving Quality and Performance through Improving the Quality of Brain Functioning of Every Manager
In this course students learn key principles and concepts that underlie contemporary management approaches to analyzing business processes, improving business performance and quality, increasing customer satisfaction and loyalty, and promoting sustainable continuous improvement. These approaches include the “Lean Enterprise” approach developed by Toyota and the Six Sigma system for reducing defects and improving business performance. Best practices by world-class companies will be examined through readings and case studies. Applications to environmental management and sustainability will be emphasized. Topics include: the contribution of Deming, Juran and other quality management pioneers; building customer satisfaction and loyalty through improved quality and performance; human resource management in world-class companies; process management and analysis; tools for business process improvement; best practices in managing for sustainability; building and sustaining organizations committed to world-class quality and performance. (4 units)

MGT 568 Investment Management: Profiting from the Principle That the Nature of Life Is to Grow
Successful investing provides enormous rewards in terms of freedom and financial security. Investing is a process of using capital or money to increase individual or corporate net worth. Topics covered include how to use equity and debt securities, options and futures, and modern portfolio theory to develop strategic and tactical capabilities. Students will create a model portfolio based on both fundamental and technical analyses of current and historical market conditions and will read books from leading investors and benefit from guest lecturers. (2–4 units) Prerequisite: MGT 550
MGT 570 Business Analysis for Management Accountants: Developing the Ability to Shift Attention from Analysis to Synthesis
Enlightened managers easily move from broad awareness of strategic issues to the fine points of operational business decisions. In this course, students exercise the swing of their awareness by working case exercises in economics, global business issues, internal controls, analytical decision-making, and financial statement analysis. A survey of subjects covered in part 1 of the CMA examination. (4 units)

MGT 571 Global Supply Chain Management
This course analyzes the flow of materials as well as goods and services through the supply chain. The course also develops a solid grounding in the theory of supply chain design, including location decisions, logistics, inventory management, customer service and web-centric integration. Students engage in supply chain decisions based on real world cases. Relationships between supply chain partners are considered in relation to the development of individual and collective consciousness. (4 units)

MGT 574 Marketing Research: Using Data Analysis to Identify Trends in Collective Consciousness and Assess Support for New Business Ideas
Market research is the first activity that should be conducted when contemplating a new business or governmental activity. It is the means for refining an initial idea to a concept that is maximally supportable by the environment. The course covers specification of information needs, research design methods, sources of marketing information, analyzing and interpreting data, and developing evaluation and feedback systems. (2–4 units)

MGT 577 Accounting Reporting and Control: Purifying the Process of Information Presentation by Utilizing Cycles of Rest and Activity
Managers, who experience regular cycles of rest and activity in their mind and body, enliven organizing power. This course offers mini-cases in budgeting, cost management, performance measurement, information management, and external financial statement preparation – all of which facilitate insightful decision-making. A survey of subjects covered in part 2 of the CMA examination. (4 units)

MGT 579 International Marketing: Fulfilling the Evolutionary Impulse of Life by Designing and Delivering Products and Programs That Bring Fulfillment to the Diverse Needs of a Global Marketplace
This course examines the development of international marketing programs, from the determination of objectives and evaluation of international market opportunities through the coordination of strategies in world markets. It emphasizes the application of marketing principles in the multinational environment, the extent of standardization of marketing programs across several countries, and the selection of appropriate entry strategies for foreign markets. (4 units)

MGT 580 Sustainable Continuous Improvement II: Business Activity in Accord with Nature’s Law of Least Action
Students will learn the practical and managerial skills for implementing sustainability
through value based process improvement in both large and small organizations. The course is based around implementing Lean Thinking in real world situations. Students will act as junior consultants under the guidance of experienced faculty. They will learn to define value from the perspective of all the stakeholders, how to map value streams, identify waste, and facilitate Kaizen-based process improvement events. They will assist with all aspects of policy deployment, which ensures that the ongoing process improvement reflects strategic business objectives while shifting the organization towards full sustainability. (4 units) Prerequisite: MGT 502

**MGT 581 Employment Law: Aligning Behavior with Natural and National Law**
This course examines the growing body of employment-practices law and its impact on human resource policy and decision-making. Topics include equal employment opportunity and discrimination, occupational safety and health, compensation and benefits, employee protection, and labor relations. Special issues (e.g., adverse impact in employee selection, wrongful discharge, sexual harassment, disabilities) are discussed in the context of statute, case law, and implications for managers in the work setting. (2–4 units)

**MGT 582 Management and Organization: Expanded Consciousness Is the Basis of Ideal Behavior at the Individual, Team, and Organizational Levels**
An understanding of the principles of human behavior at the individual, interpersonal, group, and organizational levels of analysis is critical to successful planning, organizing, and implementation by any manager. This course explores the dynamics of individual and group achievement from the perspectives of both skills and theory. Topics include general management theory, leadership, delegation and coordination, planning and problem solving, organizational structure, and organizational change. (2–4 units)

**MGT 5821 Executive Management Practices for Accountants: Leading from the field of all possibilities**
World-class leadership in organizations requires knowledge of a variety of key management skills including how to recruit, select and develop personnel. In this course, students discover leading-edge techniques in behavioral-based interviewing, managing employee performance, creative employee recruitment techniques, leadership behaviors and effective communication through memo writing and PowerPoint presentations. Students will be challenged by individual and small group projects, case studies, Harvard Business Review articles, field trips, business simulations and guest speakers. (2 units)

**MGT 583 Mediation and Negotiation: Utilizing the Deepest Principles of Human Nature to Create Win-Win Solutions**
This course is a survey of negotiation, mediation, and arbitration methods of resolving disputes without litigation in the public as well as private sectors. Students gain practical negotiation skills through participation in negotiation and mediation workshops and the analysis of case studies. Topics include understanding the perspective of other parties, analyzing the structure of negotiations, building a productive framework for negotiation, defining objectives and strategy, framing proposals, and finding "win/win" solutions. (2–4 units)
MGT 5852 Lean Accounting Transformation for Accountants: Transforming the flow of Information Using Nature’s Principle of Least Action
As Lean Management techniques sweep the world, accountants are asked to prepare reports and support decision-making utilizing a new set of reporting tools. In this course, students begin with an intensive review of traditional management accounting topics (including cost-volume-profit analysis, variable costing, incremental analysis, and responsibility accounting) each of which are foundational for Lean Accounting. Through case studies, guest lectures, articles, and field trips, students will explore how to: (a) support Lean Management transformation by preparing reports that will facilitate analysis and decision-making, and (b) implement Lean Management techniques to improve internal accounting services. Additional lectures cover contemporary topics in financial accounting including Sarbanes-Oxley Act, US payroll accounting, and US-GAAP. (4 units)

MGT 5853 Systems for Developing Organizational Excellence: Maximizing Sustainable Organizational Brilliance
In the past ten years, business leaders around the world have developed new methodologies to steer their organizations towards sustainable achievement of "Triple Bottom Line" success, i.e., financial results, social responsibility, and environmental stewardship. In this course, students will learn about the major programs for developing organizational excellence including Six Sigma, Lean Management, Balanced Scorecard, Continuous Process Improvement (kaizen), and other best practices methodologies. (2 units)

MGT 5854 Lean Management Principles: Managing According to Natural Law
Through selected journal and website articles, students are introduced to the basic concepts of Lean Management as exemplified in the Toyota Production System. The elements, rules and tools of lean are explored as a methodology for aligning an organization's strategic and operational plans to be consistent with Nature's organizing principles. Students write essays and take on-line quizzes to demonstrate mastery of the material. (2 units)

MGT 5855 Lean Accounting I: Transformation through Organizational Self-referral
To effectively support lean management initiatives, accountants must embrace new procedures to prepare management reports that focus on inventory size reductions, tracking of waste and failure costs, and improved productivity and occupancy costs. They must reveal the causal factors that drive lean success. They must think creatively about how to structure compensation systems that encourage lean behaviors. Through articles, case studies, lectures, and written assignments, students will gain a solid foundation for facilitating lean transformation. (2 units)
MGT 5856 Lean Accounting II: Creating Coherence in the Flow of Accounting Services
In this course, students learn how to apply the concepts of lean management to streamline accounting processes and to better meet the needs of the internal customers who use accounting services. Students learn how to assess internal customer requirements, how to map accounting value streams, how to identify non-value added activities, and how to conduct kaizen events to continuously improve accounting services. (2 units)

MGT 5857 Cases in Lean Management and Accounting: Sharpening the Intellect to Improve Performance
Through detailed case studies and articles, students dig deeply into the details of how organizations have applied lean concepts to improve key management systems and accounting business processes. Topics include performance metric systems, revised compensation incentives, revised management accounting reports, work cell box scores and balanced scorecard implications. (2 units)

MGT 5858 Implementing Lean Accounting in Organizations: Applying the Principle of Least Action for Maximum Success
In this course, students are required to either implement some aspect of lean accounting within their organization or to write an instructional case study on some aspect of lean accounting. Faculty approves projects based on proposal submissions. Guidelines will be provided on case study write-ups. (2 units)

MGT 591 Business Practicum: Stabilizing Knowledge Gained with Practical Experience
Action creates the steps of progress. Students gain hands-on accounting experience with a U.S. company as a financial analyst, staff accountant, internal auditor or another type of accounting-related work. Training goals and objectives will be developed in conjunction with the on-site company supervisors. Students provide regular progress reports. (4 units)

MGT 593 Topics in SCI and Management: Applying the Organizing Power of Nature’s Management
Contacting the source of pure intelligence within the individual is the foundation of ideal management. This course covers a variety of topics in the Science of Creative Intelligence. (1–4 units — may be repeated)

MGT 594 Industry Analysis for Strategic Planning: Analyzing the Wholeness to Create Future Expansion
The goal of this course is to cultivate the holistic and specific values of management in the awareness of the student so that whatever management responsibility one may have, the process of management is always spontaneously upheld by the infinite organizing power of Natural Law. This capstone course weaves together the student’s knowledge of the specific areas of accounting, finance, marketing, operations, and management and organization. Students research a firm in the context of its industry to identify the firm’s strengths, weaknesses, opportunities and threats. Each student’s project concludes with
either an evaluation of the firm’s apparent strategy, a strategy formulation for the firm, or a valuation of its stock. (2-4 units) Prerequisites: MGT 315, MGT 425, MGT 430

MGT 594 Business Process Modeling: Smoothing the Flow of Consciousness
In this course, business analysts learn how to effectively communicate with IT professionals who are developing data solutions for management. This course is ideal for non-technical business analysts and management accountants. Through the knowledge of UML Business Analysis, students learn how to combine business knowledge, financial processes, policies and rules to support the IT team. With the material covered in this course, non-technical business analysts and accountants will successfully impart the business and financial reality to IT experts. They will produce precise, comprehensive, standardized text and diagrams that are easy to understand and that tie together business and financial realities. Students learn how to create the path of least resistance in communication by utilizing the flow of consciousness. (2 or 4 units)

MGT 597 Special Topics in Management
This course covers advanced topics in management approved by the department chair for a single offering by a faculty member. (2–4 units)

MGT 598 Curricular Practical Training Internship in Management: Skill in Action
During internships students apply the knowledge from their management courses in supervised practical settings. (variable units) Prerequisite: consent in the form of written authorization of international student advisor

MGT 599 Directed Study
(variable units) Prerequisite: consent of the department faculty

MGT 600 Models of Organizational Excellence: Ideal Principles of Management for a Sustainable World
Organizational excellence means integrated, balanced success in all the specific areas of business. This course presents a variety of frameworks for understanding organizational excellence: students become familiar with contemporary models and with the vision of perfection presented by Maharishi Master ManagementSM. Topics include origins of the organizational excellence movement, current models of excellence, stakeholder perceptions of excellence, stage models of organizations, principles and practices of visionary organizations, and perfection through Maharishi Vedic Management. (4 units)

MGT 601 Organizational Behavior Theory and Research: Engaging the Managing Intelligence of Nature for Perfection in Management
A review of the classic works in the Organizational Behavior (OB) literature, this course examines the main issues and questions addressed by OB since its inception in the late 1930s, including motivation, small group behavior, leadership, power, and organizational culture and change. Students will develop hypotheses for how expansion of consciousness influences OB. (2–4 units)
MGT 603 Natural Law-Based Leadership: Higher Consciousness for Higher Responsibility and Greater Influence
Leaders are called upon to perform a variety of functions in organizations — visionary and entrepreneur, planner and resource allocator, as well as dispute adjudicator and friend. What constitutes leadership? Does it vary by context, by the personality of the leader? Are leaders born or can they be developed? Topics include leadership theory and leadership development, measures of leadership, and evaluation of leadership research. (2–4 units)

MGT 605 Advanced Seminar in Management: Perceiving Subtler Knowledge Through Refined Awareness
Topics will be chosen according to current research interests of students and teachers. This seminar features in-depth exploration of advanced topics to prepare students for dissertation research. (2–4 units)

MGT 606 Socially and Environmentally Responsible Management: Developing Inner Intelligence to Promote Socially Responsible Action
An increasing number of organizations are concerned about social and environmental responsibilities in the context of sustainable development, and are interested in developing tools to improve their performance and accountability in these areas. This course introduces students to these issues with emphasis on current research in these fields. The key to sustainable progress is to align individual and collective consciousness with total Natural Law available in the Self of everyone. Topics include business ethics, stakeholder influences, corporate social responsibility, environmental management, natural capitalism, triple bottom line reporting. (2–4 units)

MGT 607 Assessment and Evaluation: Measuring Growth of Self-Actualization and Enlightenment
Assessment and evaluation are important skills for science and business. In this class, students will master the fundamental principles of assessment and evaluation and gain experience in administering tests. The class project will feature a practicum in which all will contribute to developing a measure of states of consciousness. Topics include: reliability, validity, intellectual tests, abilities tests, vocational tests, personality tests, test administration, and ethical standards in testing. (4 units)

MGT 630 Statistical Analysis for Management Research 1: Using Analysis of Variance to Find the Order Underlying Diversity
This course provides an applied introduction to the most widely used statistical procedures for analyzing data obtained from experiments in management research. Applications will be emphasized that involve computer analysis of real data sets using state-of-the-art software. Topics include review of one-sample and two-sample t-test procedures, single and multi-factor analysis of variance (ANOVA), multiple comparison of group means, analysis of covariance, tests of model assumptions, power and required sample size, and introduction to simple and multiple regression. (4 units) Prerequisites: MGT 424 or MGT 524 (or equivalent) and permission of instructor
MGT 631 Statistical Analysis for Management Research 2: Using Multiple Regression Analysis to Discover the Order and Precision of Nature's Intelligence
This course examines contemporary procedures of multiple regression analysis for business data, primarily cross-sectional data from observational studies. Topics include review of simple regression, hypothesis tests and confidence intervals in multiple regression, modeling nonlinear regression relationships, model specification strategies, diagnostic testing of model inadequacy, omitted variable bias, binary explanatory variables and interactions, robust regression, and assessing internal and external validity in multiple regression studies. (4 units) Prerequisites: MGT 630 (or equivalent) and permission of instructor

MGT 632 Statistical Analysis for Management Research 3: Improving Causal Inference through Discovering the Order at the Basis of All Diversity and Change
This course will examine advanced procedures of multiple regression analysis used in contemporary management research. Special emphasis will be given to the evaluation of program effectiveness using data from quasi-experimental or non-experimental research designs. Topics include: quasi-experimental and observational designs; testing for selection bias; adjusting parameter estimates for selection bias; panel regression methods; logit and probit regression methods for regression with binary dependent variables; instrumental variables regression to correct for omitted-variable bias, simultaneous causality, and measurement error; introduction to regression analysis for time series data; estimation of dynamic causal effects. Prerequisite: MGT 631 (4 units)

MGT 635 Experimental Research Design: Unified Knowledge through Subjective and Objective Approaches
This introductory course begins with the logic of causation and correlation in social science. We review the steps of scientific inquiry: literature review, theory development, operationalization and measurement of variables, data collection and analysis, interpretation, and write-up. Experimental and quasi-experimental research designs are treated specifically. Topics include the types of validity, the “control” of extraneous influences by design or by statistical methods, and the relationship between research design and statistical testing. (4 units)

MGT 636 Qualitative Research Methods: Researching from the Field of Pure Subjectivity
Qualitative research is often used in research on complex behavioral systems and in the exploration of a new field of study. Using methods such as participant observation, unstructured interviewing, and the examination of documents, a scholar can form theories that may be later tested by quantitative methods or validated on other samples. Particular attention is given in this course to the methodology of grounded theorizing in multiple case studies and problems of data analysis, interpretation, and generalization. (4 units)

MGT 655 Human Resource Development: Unfolding the Unbounded Potential of the Individual for Collective Effectiveness
Strategic and integrated human resource development (HRD) programs can improve individual, system-wide, and organizational performance. Development of individual and
collective consciousness provides the foundation for performance improvement. Students learn to diagnose performance needs, to design performance improvement interventions, to link performance interventions to business goals, to develop partnerships with management for implementing HRD programs, and to measure the costs and benefits of HRD programs. (4 units)

MGT 672 Organizational Change and Development: Increasing Coherence to Maximize Collective Achievement
The challenges involved in organizational design and theories of organizational change have to do with actually implementing these ideas in a practical way in the administrative setting. This course covers topics related to these application issues, such as history of organizational development, organizational development methods and outcome research, and the management of change in the organization. (4 units)

MGT 689 Preparation for the Comprehensive Examination: From Broad Comprehension to Sharp Focus — Calling upon the Brain’s Total Potential
The comprehensive examination assesses the student’s ability to express and apply the knowledge from the courses in the Ph.D. program. Students are registered for this course while preparing for and writing the comprehensive examination. (4 units)

MGT 690 Preparation for the Qualifying Examination: Effective Planning from the Field of All Possibilities
This course provides the time necessary to prepare for the qualifying examination, which demonstrates research competence. It may be in the form of a research proposal, or in another form at the discretion of the program faculty. After successful completion of this examination, students advance to the status of Ph.D. Candidate. (2–4 units — may be repeated) Prerequisites: completion of all core curriculum and consent of the graduate faculty

MGT 692 Seminar on Writing: Communicating Knowledge in Terms of Wholeness
This course prepares doctoral students to be competent in the conception, organization, writing, and presentation of scholarly works. (4 units)

MGT 693 Seminar on Teaching: Creating a Frictionless Flow of Knowledge
This course prepares doctoral students to be competent teachers. Topics include curriculum design; effective use of lecture, questioning, class discussion, and team-based learning; appropriate and effective use of supporting materials; and construction of effective means to assess student learning outcomes. (4 units)

MGT 698 Research Practicum: Stabilizing Knowledge through Practical Action
Students develop research skills through hands-on experience in research activities such as literature review, instrumentation, data collection, data analysis, and report writing. (4 units)

MGT 699 Directed Study
(variable units) Prerequisite: consent of the School faculty
MGT 700 Preparing the Dissertation Proposal: Elaborating the Seed Idea from Wholeness to Point Using Nature's Sequential Steps of Progress
Having gained doctoral candidacy by completing the comprehensive and qualifying examinations, students prepare a proposal for a doctoral dissertation that is acceptable to their major professor and dissertation committee. (2–4 units — may be repeated)
Prerequisites: Ph.D. candidate status and consent of the dissertation advisor

MGT 701 Dissertation Research: Research into the Transcendental Field of Consciousness as the Basis of Personal, Business, and Academic Success
Students conduct original research and prepare their dissertations. (2–4 units — may be repeated) Prerequisites: approved dissertation proposal and permission of the dissertation committee

Government Courses

GOV 201 U.S. Government and Politics: The Natural Law Theory of the Founding Fathers and Its Application in Modern Times
This course studies the nature and functioning of U.S. governmental institutions and the American political process. Topics include the Constitution; the Presidency, Congress, the Supreme Court and the judicial branch; administrative and regulatory agencies; political parties and elections; the process of policy formulation and implementation; special interest groups; the role of public opinion and the media; and the relationship between government and national consciousness. (4 units)

GOV 280 International Relations and Peace: Applying Principles of Cultural Integrity, Invincibility, and World Harmony to International Relations
This course examines contemporary international relations with an emphasis on the search for effective means to reduce and prevent armed conflict, enhance international cooperation, and promote world peace. Students will analyze in-depth case studies and write policy papers on key issues in international relations. (4 units)

GOV 290 Government and Collective Consciousness: Understanding and Utilizing the Group Dynamics of Consciousness to Create Permanent World Peace
From the perspective of the Science of Creative Intelligence and Maharishi Vedic Science, students explore the principles and dynamics of collective consciousness and their relationship to governmental functioning, societal trends, and the quality of life in society. Students examine published evidence verifying the beneficial changes in society produced by the group practice of the Transcendental Meditation and TM-Sidhi programs, with particular reference to the implications of these technologies of consciousness for enhancing governmental achievements and promoting world peace. (Offered jointly with the Department of Maharishi Vedic Science) (4 units)
GOV 400 Special Topics in Government: Exploring the Field of All Possibilities in Government
Possible topics include international trade and competitiveness, health economics and health policy, public sector management, comparative government, and international organizations and regimes. (4 units — may be repeated) Prerequisite: consent of the Department faculty

GOV 402 Global Environmental Politics and Policy: Developing Policies That Recognize and Support the Interconnectedness of Human Beings and Nature
This course analyzes the politics of global environmental protection with an emphasis on the study of policy options to solve and prevent environmental problems throughout the world. Among the issues to be discussed are genetic engineering of food products, pesticide and other chemical contamination in agriculture, global warming, trans-boundary shipment of toxic waste, air and water pollution, and deforestation. Students will analyze several in-depth case studies and write policy papers. (4 units) (Offered jointly with the Department of Sustainable Living)

GOV 407 Cross-Cultural Communication: Understanding and Appreciating Differences to Create a Frictionless Flow of Communication
Ever increasing globalization makes it imperative that students understand the different cultures in their world. This course provides frameworks useful in classifying cultures and understanding cultural norms and traditions. Analyzing case studies and participating in workshops and presentations enable students to establish patterns of behavior that facilitate cross-cultural communication. (2-4 units)

GOV 420 Economic Analysis of Environmental Policy: Allocating Global Resources Effectively
This course applies key principles of environmental economics to the analysis of issues of environmental policy and environmental management. Lessons for environmental policy are derived by studying the effectiveness and limitations of current environmental and resource policies with respect to several key contemporary challenges to the national and international environment. No previous study of economics is required. (4 units) (Offered jointly with the Department of Sustainable Living)

GOV 498 Internship in Government: Developing Skill in Action
This course gives students practical experience in a branch of national government or in state or local government. Students maintain journals that record their experiences during their internships. Students pay their own transportation costs, if travel is required. (4 units — may be repeated for credit) Prerequisite: consent of the School and the Academic Standards Committee

GOV 499 Directed Study
(variable units) Prerequisite: consent of the Department Chair
BACHELOR OF ARTS IN COMMUNICATIONS AND MEDIA

FACULTY
• Gurdon Leete, M.F.A., Assistant Professor of Art and Co-director of the Communications and Media Program
• Stuart Tanner, M.A., Adjunct Assistant Professor of Communications and Media and Co-director of the Communications and Media Program
• Terry Fairchild, Ph.D., Associate Professor of Literature
• James Fairchild, Ph.D., Assistant Professor of Literature and Writing
• David Goodman, Ph.D., Assistant Professor of Management
• Nynke Passi, M.A., Assistant Professor of Literature and Writing
• Kenneth West, M.B.A., Assistant Professor of Management
• Jessica Keen, M.A., Instructor of Communications and Media
• Gillian Brown, M.A.E., Adjunct Assistant Professor of Art
• Joe Holland, M.A., Adjunct Instructor of Communications and Media
• Brian Smith, B.A., Adjunct Instructor of Art

INTRODUCTION

Maharishi University of Management offers one interdepartmental degree program, the Bachelor of Arts in Communications and Media. This program is a collaborative venture among the Department of Art & Design, Department of Literature, and the Department of Business Administration.

SPECIAL FEATURES

In the Communications and Media program, students develop the skills to create well-crafted, appealing, and life-supporting commercial works that communicate messages, ideas, and experiences that are of lasting value to the world. Students have the option to study and develop their works in three areas:

• **Video/audio production** —
  producing • directing • acting • lighting • videography • non-linear editing • documentary production • radio broadcasting • television production • Internet broadcasting

• **Graphic design/Web design** —
  digital photography • digital image editing and compositing • graphic design for print media • darkroom photography • Web graphics • Web development • Web video • Web animation

• **Writing for media** —
  journalism • photojournalism • screenwriting • travel writing • creative writing • writing for the Web.
The curriculum includes opportunities for real-world internships to apply one’s skills, develop a portfolio, and gain valuable experience and contacts for launching one’s career.

DEPARTMENTAL REQUIREMENTS

Graduation Requirements for the Bachelor of Arts Degree in Communications and Media

To graduate with a major in Communications and Media, students must complete 48 units of course work from the list below, including at least 4 units from the Department of Literature and at least 4 units from the Department of Art and Design.

Required Courses (24 units)
In the required courses, students develop foundational business strategy and implementation skills, and narrative communication skills. They also gain skills in video/audio production, graphic design/Web design, or professional writing, which they further develop as they build their portfolios in the capstone Media Project course.
- MGT 200 Principles of Business Success (4 units)
- CMM 300 Narrative (4 units)
- A concentration, from the electives listed below, consisting of
  - 12 units of video, television, or radio production classes, or
  - 12 units of Web design or graphic design classes, or
  - 12 units of non-fiction or media-related writing classes
- CMM 381 Media Project 1 (4 units)

Electives (24 units)
Elective courses develop the student’s knowledge and skills in the use of the spoken or written language, in the visual arts, or in the business and technological aspects of television, computer animation, professional writing, and Web design. Courses that may fulfill elective requirements in this major include the following.

Video, television, or radio production classes:
- CMM 313 Documentary Filmmaking (prerequisites: CMM 300, and either FA 282 or FA 284)
- CMM 321 Television Production 1 (prerequisites: CMM 300, FA 284)
- CMM 322 Television Production 2/Internet Broadcasting (prerequisite: CMM 321)
- CMM 330 Radio Broadcasting
- FA 282 Video Production
- FA 284 Video Editing

Note: “Documentary film” in CMM 313 refers to documentary videos as well as documentary films. The course includes study of both documentary film and video; all production is done in high-definition video.

Web design or graphic design classes:
- CMM 260 Digital Arts for Sustainable Living
- FA 361 Digital Imaging and Graphic Design 1
- FA 362 Digital Imaging and Graphic Design 2 (prerequisite: CMM 260 or FA 361)
- FA 363 Web Design & Web Animation 1 (prerequisite: CMM 260 or FA 361)
• FA 365 Web Design & Web Animation 2 (prerequisite: CMM 260 or FA 361)
• FA 488 Advanced Studio in Digital Media (prerequisite: 12 units of CMM 260, FA 361, FA 362, FA 363, or FA 365)

Non-fiction or media-related writing classes:
• WTG 320 The Personal Essay
• WTG 360 Writing and Photography
• WTG 364 Screenwriting
• WTG 410 Travel Writing

Additional electives:
• CMM 382 Media Project 2
• FA 201 Principles of Design
• FA 331 Photography 1
• FA 332 Photography 2
• FA 335 Digital Photography
• LIT 363 The Art of Film
• LIT 364 The Science Fiction Film
• LIT 372 Media and Literature
• MGT 425 Marketing
• MGT 474 Marketing Research
• THE 310 Acting
• WTG 201 Poetry of Transcendence
• WTG 310 Poetry Writing
• WTG 313 Writing and Reading the Short Story
• WTG 314 Fiction Writing 2
• WTG 315 Writing Literary Nonfiction
• WTG 322 Writing the Personal Memoir
• WTG 340 Writers on Writing
• WTG 350 Advanced Creative Writing

Requirements for a Minor in Communications and Media
To graduate with a minor in communications and media, the student must take CMM 300 Narrative plus 16 credits of other courses listed as required or elective for the CMM major.

COURSES

For the descriptions of courses in this degree program taken from the departments of Art and Design (FA), Literature (WTG, LIT, THE), and Business Administration (MGT), please refer to the sections of this catalog for those departments.

CMM 260 Digital Arts for Sustainable Living: Harnessing the Power of Creativity and Digital Media to Build a Better World
Students focus on principles of design and foundational digital media technology skills that can be useful to sustainable living students, or to anyone. Students develop their skills by exploring fundamentals of digital photography, digital imaging and graphic design, presentation software, digital video, and Web design. They apply their skills in
real-world media projects related to sustainable living, to create presentations, posters, newspaper ads, simple Web sites, and digital video for DVD and for the Web.

Prerequisite: basic computer skills (word processing, e-mail, Web surfing). (4 units)

Prerequisite: FOR 101

CMM 300 Narrative: Unifying and Unfolding the Full Range of Human Experience
This course examines the essential role of narrative in the creation of all forms of media. From the very beginnings of human records, whether it is mythology, scripture, literature, or the earliest cave paintings, the creators of these works have always told their audience a story or imparted a message by the use of narrative. In order to work in any creative medium, understanding the various ways in which narrative is used is a great advantage. This course will examine the range of narrative forms and narrative devices that have been used since the dawn of time right up until the modern day. We will discover that although the forms and types of media used might have changed as technology has advanced, in fact, most of the essential forms of narrative used in creative works have been with us for ages. Understanding why will reveal how narrative reflects both the universal and unique aspects of the experience of human life. As part of the course students will be required to undertake projects that aid the development of their own narrative skills. (4 units) Prerequisite: FOR 101 (4 units)

CMM 313 Documentary Filmmaking: Developing the means to explore human life in all its diversity and underlying unity
Documentary films have their basis in the real world. They are made for a variety of purposes but fundamentally they explore the entire range of human experience. This course will examine the role of documentary filmmaking and all the various forms of the documentary. It will be a fascinating journey that will take students all over the globe and throughout history dealing with a wide range of issues both past and present. In this course students will also examine how to make a documentary. It is therefore very practical in its focus. The first requirement to any documentary is knowing what the story is and what kind of story makes a good documentary. Having chosen a story, there is then the realization of it. This course will teach students the process of securing a commission from a TV channel or potential funder. Students will learn what is required to make the all-important pitch. They will then choose some stories and make short documentaries about them. Prerequisites: CMM 300, and either FA 282 or FA 284. (8 units)

CMM 321 Television Production 1: Disseminating Information and Entertainment for the Enlightenment of Society
This course will examine television in all its forms: news, documentaries, drama, soaps, reality shows, music channels, and the new forms of broadcast that are emerging over the Internet. This course will be a truly entertaining and fascinating journey as we unravel the secrets and methods of each form of television making. We will also examine the various legal and ethical issues that arise in television production. As part of the course students will have the opportunity to produce television content across a range of genres. (4 units)

Prerequisites: CMM 300, FA 284
CMM 322 Television Production 2/Internet Broadcasting: Disseminating Information and Entertainment for the Enlightenment of Society
This course will focus on explaining the various positions and responsibilities within the television industry, such as researcher, director, producer, editor, production manager and executive producer. This course will give the student an understanding of what these various roles entail. Being a researcher in television, for instance, is different from doing research in most other fields. It is not just about gathering information but also about establishing key relationships with potential contributors and understanding what will work within an essentially visual medium. With each of these key roles, we will first understand them and then gain some practice at performing them. This will be done through specific projects. Practical experience of these roles will be a real help to advancing a future television or media career. (4 units) Prerequisite: CMM 321

CMM 330 Radio Broadcasting: Utilizing the Imagination to Create All Possibilities
For creative people, the enduring appeal of radio lies in its versatility. This is a practical course in which students produce a wide range of radio content. Students will create mini-documentaries and commercials, from original concept to final mix; develop on-air skills such as presenting, reporting, and interviewing; learn how to construct and broadcast a news bulletin; and develop essential audio editing skills. (4 units) Prerequisite: FOR 101

CMM 381 Media Projects 1: Making the Imagination Manifest
This is a capstone course in which individuals who have taken the courses in Communications and Media come together to envisage and then realize a set of core projects across a range of media. These projects are formulated among the student group with the aid of faculty members. The first stage of the course will be the generation of the project ideas, which can include ideas that utilize a range of media or ideas that are focused on a particular medium. The central goal of the course is for students to apply everything they have learned to these projects. It is a cooperative venture, so students will be involved in a variety of projects playing different roles on each one. You may be a director on a documentary, an actor in a drama feature, or a producer on a Web-based animation series. There is a wide range of possibilities. You imagine it and we will make it happen as a team. The idea is to produce great projects that get noticed. Prerequisites: $35 and consent of instructor or see the Graduation Director in the Enrollment Center (4 units)

CMM 382 Media Projects 2: Communicating from the Deepest Level
In this course, students have a chance to further develop their skills, their understanding, and their portfolio by completing advanced projects in video, Web design, graphic design or professional writing. (4 units) Prerequisite: CMM 381

CMM 398 Internship in Communications and Media: Integration of Knowledge and Action for Achievement and Fulfillment
Students gain practical experience working for a commercial or nonprofit organization in a communications or media related field, such as video production, film production, radio broadcasting, Web design, graphic design, advertising, public relations, or journalism.
Students document their growth in understanding and experience in journals. Fieldwork must be completed at least two months before graduation. Prerequisite: consent of the Communications and Media faculty. (1–4 units)
INTRODUCTION

With the rapid advances in science and technology during the last few decades, computing systems have risen to become the key technology that supports and expands almost every area of life, from education and research to commerce and entertainment. With the recent growth of networking systems and the global Internet system connecting millions of people and almost every educational, research, and business institution in the world, computing has become the most powerful and pervasive aspect of modern technology and a vital element of success in almost every area of life.

Today we live in an information-based society. Fundamental knowledge of how computers and computing systems work is a vital part of modern life. The universal role of computing and the great power that it brings to all areas of life is based on the ability of computing systems to represent and reason about the knowledge which is at the basis of any area of application.

Computer science is the study of these structures and dynamics of information, and their expression into progress and machines. It creates a new and exciting area that merges
aspects of mathematics and electronics to form a new discipline of software and computing systems. This allows one to describe abstract concepts or knowledge from any area of interest, and then create powerful systems that produce concrete results — the flight of a satellite, a computer graphics system for movies, scientific computation, management information systems, or desktop word processing.

With such broad areas of application, a computer scientist must have a strong background in both the foundations of knowledge on which these systems are organized, and the principles which are used to create and apply computing to all of these diverse areas of life. Clearly, a computing professional enjoys the ability to work in one of the most exciting and leading areas of technology today and one of the most important areas for the future.

Our computer science programs prepare graduates for success in this field by providing comprehensive knowledge of the discipline and the ability to think clearly and precisely.

**Programs Offered**

- B.S. in Computer Science
- Minor in Computer Science
- M.S. in Computer Science offered in three formats:
  1) a one-year program full time on campus for students with a bachelor’s degree in computer science.
  2) a three-year on-campus internship program for students with a bachelor’s degree in computer science. Students in this program enroll in practicum and directed study courses for two years and are placed in curricular practical training work assignments at the University. The third year is full-time course work.
  3) a two-year cooperative program for students with a bachelor’s degree in computer science and at least two years of relevant work experience. Students in this program take one year of full-time course work at the University (or through Distance Education) and one year of directed study through a cooperative job placement. (Note: Most costs for this program are covered through internships in American information technology companies.)
- Post-Graduate Certificate in Computer Science
- Specialization in M.S. in Computer Science

**SPECIAL FEATURES**

- Our programs develop outstanding computer professionals. Graduates are well prepared for careers in business, government, education, or research. Students become thoroughly grounded in programming languages, computer architecture, computer systems, and theory of computation. In addition, they gain experience in applied computer science areas such as computer graphics, compilers, databases, and networking.

- Our students are enjoying notable professional success in industry and education, including Microsoft, IBM, AT&T Bell Labs, Cisco Systems, First Data Corp.,
Caterpillar, SITA, Bluestem Systems, Google, Commerce Clearing House, Amazon, Marathon Photo, LHS Communications Systems, Software Artisans, and various universities.

- Students develop the essentials for success in the computer science profession, and all areas of life — problem-solving ability, logical thinking, creativity, broad comprehension, and fine focus of attention.

- Students gain experience with the most advanced operating systems and computer environments including Microsoft Windows and Linux.

- Students study the unifying theory of programming languages and explore a variety of modern languages and approaches to programming in various classes, for example, Java and C# (for enterprise and large-scale systems), Python and Ruby (for Web development) and “ML” (for research in the functional approach to programming). Other specialized languages are taught as needed.

- Our faculty use an effective teaching approach that creates a learning environment of ease and enjoyment without the stress and strain that commonly accompany a rigorous discipline.

- Students study the basic principles underlying all computer hardware, and examine principles that have given rise to the most recent advances in high-performance and super computing systems, including networked, parallel, distributed, and highly concurrent approaches. Each of these systems uses many computers in combination to solve a large computational task, but they differ in their scope and approach.

- The Department of Computer Science has several very well equipped computing laboratories, which provide Internet access, as well as the departmental network, and campus network. A variety of servers provide support for classes, development, and research activities. Students can also access a wide variety of resources, including scanners, printers, and other campus services including the library online catalogue and materials.

- High-speed campus and Internet access is provided to student housing, all student labs, and several other access places around campus.

- Occasional field trips and guest lectures by successful computer professionals are offered to provide students with the latest developments in computer science and their practical applications in science and industry.

- The electronic computer is amazingly powerful, and yet is limited compared to the computing ability of the 100-billion neuron parallel processing capability of the human brain. This vast capability of the brain physiology is directly cultured through the University’s curriculum, so that graduates not only master computer science, but also
grow in the ability to spontaneously operate from the total potential of their own brain physiology and make right decisions without mistakes.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Computer Science Major or Minor
Before entering the computer science major or minor, students must successfully complete the course Intermediate Algebra (MATH 153) or its equivalent.

Graduation Requirements for the Bachelor of Science Degree in Computer Science
To graduate with a B.S. in Computer Science, students must successfully complete all general requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of these requirements, students must complete 84 units of course work as listed below. In addition, students must have a minimum 2.5 cumulative grade point average in all computer science courses.

The following required courses:
• CS 201 Computer Programming 1
• CS 203 Computer Programming 2
• CS 220 Data Structures
• CS 222 Data and File Structures
• CS 262 Digital Logic and Computer Organization
• CS 362 Computer Architecture
• MATH 272 Discrete Mathematics
• MATH 281 Calculus 1
• MATH 282 Calculus 2
• MATH 283 Calculus 3
• MATH 286 Linear Algebra 1
• MATH 351 Probability
plus additional units of computer science courses 300 or above
plus 8 units of course work in management to equal 84 units

Requirements for the Minor in Computer Science
To graduate with a minor in computer science, students must complete the following required courses:
• CS 201 Computer Programming 1
• CS 203 Computer Programming 2
• CS 220 Data Structures
• CS 222 Data and File Structures
plus additional units of computer science courses to equal 28 units

Entrance Requirements for the Master of Science Degree in Computer Science
To be admitted to the M.S. in Computer Science program, students must hold a bachelor’s degree with an undergraduate grade point average of at least 3.0 (“B”) and
submit scores from the Graduate Record Examination (GRE). In addition, students must have a background in computer science corresponding to the following courses:

- CS 201 Computer Programming 1
- CS 203 Computer Programming 2
- CS 220 Data Structures
- CS 222 Data and File Structures
- CS 310 Systems Programming
- CS 350 Programming Languages
- CS 262 Digital Logic and Computer Organization
- CS 362 Computer Architecture
- MATH 272 Discrete Mathematics

Students without this background can take the needed course work at the beginning of the program, thus increasing the length of the program up to one year. In this case, the grade for the undergraduate prerequisite course work will not be included in the GPA for the Master of Science program.

Four additional mathematics courses are also required for admission:

- Calculus 1 (MATH 281)
- Calculus 2 (MATH 282)
- Linear Algebra I (MATH 286)
- Probability (MATH 351)

Students lacking one of these mathematics courses may be accepted with the understanding that this deficiency will be made up in addition to their regular program of study.

This required background in mathematics and computer science could be acquired through course work at the University or elsewhere, or through equivalent professional work experience.

Transfer credit for graduate courses taken at other qualified universities are limited to a maximum of two courses (8 units). Additional graduate study can be applied to waive specific course requirements, but not to reduce the number of units required to graduate.

**Graduation Requirements for the Master of Science Degree in Computer Science**

To graduate with an M.S. in Computer Science, students must successfully complete all requirements for the master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) Program requirements are:

1) 40 units of computer science courses at the 400 level or above.
2) At least one of the following must be completed with a grade of “B” or better:
   - CS 435 Algorithms
   - CS 505 Advanced Programming Languages.
3) Two courses (8 units) must be computer science courses at the 500 level that have been completed with a grade of "B" or higher.

4) The cumulative grade point average for Computer Science courses at the 400 level and above must be at least “B” (GPA of 3.0) or higher. In addition, grades lower than a B are assigned low-grade points” (i.e., B- is 1, C+ is 2, etc). No more than a total of 4 such low-grade points will be allowed in the 40 units of computer science course work required for graduation.

5) If the master’s thesis option is selected by the student and approved by the faculty, then Master’s Thesis Research (CS 588) with an oral defense may be used to satisfy up to 8 units.

6) If, upon admission to the program, the student lacks one of the required mathematics courses, it can be taken to satisfy 4 of the 12 units of additional computer science course work, if approved by the department.

Entrance Requirements for the Master of Science Degree in Computer Science, Internship Program

Entrance requirements for this program are the same as for the M.S. program listed above. Students who have some deficiencies in these entrance requirements may be provisionally admitted to the program and allowed to make up these deficiencies as part of the directed study program during the first year of the program or in an additional year of full-time study.

Graduation Requirements for the Master of Science Degree in Computer Science, Internship Program

To graduate with an M.S. in Computer Science, Internship Program, students must successfully complete all general requirements for the master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) In addition, the following 66 units of course work are required:

- 36 units of course work corresponding to the standard M.S. program listed above
- 10 units of practicum course work:
  - CS 576 Practicum in Software Development II
  - CS 591–596
- 20 units of directed study course work

NOTE: The Forest Academy requirement for this program is either FOR 500 or FOR 501.

Entrance Requirements for the Master of Science Degree in Computer Science, Cooperative Program

Entrance requirements for this program are the same as for the standard M.S. program listed above.
Graduation Requirements for the Master of Science Degree in Computer Science, Cooperative Program

To graduate with an M.S. in Computer Science — Track III, Cooperative Program, students must successfully complete all requirements for the master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) Program requirements are the same as for the M.S. in Computer Science standard program with the following modifications: 44 units of instruction are required, including,

- 36 units of course work corresponding to the standard M.S. program listed above
- 8 units of Practicum (CS 575–CS 579).

NOTE: The Forest Academy requirement for this program is either FOR 500 or FOR 501 in the first semester plus one two-week Forest Academy course (FOR 411–499) for each semester enrolled on the standard schedule.

Entrance Requirements for Post-Graduate Certificate in Computer Science

The Post-Graduate Certificate is offered to students who have graduated from the M.S. in Computer Science program (or have completed all of the graduation requirements). This includes any student who has completed all academic requirements for the M.S. in Computer Science degree (3.0 CS GPA or above) and is within 6 payments of completing their loan (for M.U.M. students only).

Graduation Requirements for Post-Graduate Certificate in Computer Science

There is a 4-week on-campus requirement to this program, followed by two distance education courses. The program is one year in length and Curricular Practical Training (CPT) will be authorized for that length of time.

Students must complete three courses in a specific area of Computer Science. The purpose of a specialization is to prepare a student to be a leader in some specific area of the computing field. Specialization tracks include both foundational and application areas.

The program will begin very shortly after graduation requirements are completed. Four weeks of full-time on-campus studies must be completed in the first 3 months of the starting date of the program. Two distance-education courses must be taken immediately after the on-campus portion of the program.

8 units of CPT required

A new I-20 will be issued with new program details and will be good for 12 months from starting date.

Entrance Requirements for Specialization in M.S. in Computer Science

Students can choose to extend their M.S. in Computer Science degree by taking the Specialization option. The purpose of a specialization is to prepare a student to be a leader in some specific area of the computing field. Specialization tracks include both
foundational and application areas. Students will graduate with an M.S. in Computer Science with a Specialization in a particular area. The graduation will be one year later than the normal M.S. in Computer Science students.

Students must have completed all academic requirements for the Maharishi University of Management M.S. in Computer Science degree (3.0 CS GPA). Students must not have had any extensions to their I-20 program end date.

**Graduation Requirements for Specialization in M.S. in Computer Science**

This program includes three additional courses taken through distance education, while students continue with the Curricular Practical Training part of their program. The program will begin once all academic requirements for the M.S. in C.S. are completed. Three distance-education courses must be taken consecutively.

8 units of CPT required

I-20 will be extended for 12 months from starting date.

**Specialization or Certificate Areas of Instruction Include:**

- Computer Systems (Operating Systems, Parallel Programming, Computer Security)
- Programming Languages (Compilers, Advanced Programming Languages, Advanced Software Development, Parallel Programming)
- Network and Web Computing (Distributed Computing, Distributed Architecture, Parallel Programming, Networks)
COURSES

Undergraduate Courses

CS 101 Nature’s Cosmic Computing: Harnessing the Organizing Power of Knowledge
This course investigates the most fundamental knowledge at the basis of all computing and modern computer technology, and how it is connected to principles of the Science of Creative Intelligence and Vedic Science. We will look at the structure of computing itself, of computer science, and of the wide range of computing applications that are primary to all areas of professions and life today. Prerequisite: FOR 101 (4 units)

CS 200 Introduction to Computer Science: Creating Games and Animated Stories
This course uses 3-D computer animation technology to introduce computer-programming concepts in a lively and creative setting. Students explore creative story telling and animated games while learning object-oriented programming techniques. Topics include the principles of programming and game design techniques. Prerequisite: FOR 101 (4 units)

CS 201 Computer Programming 1: The Language of Computing — Expressing the Intelligence that Guides Computation
This first upper-division course in computer science presents the basic principles of computer programming, with emphasis on developing practical programming skills through laboratory assignments. Topics include formulation of algorithms, top-down design, basic control structures, data types, functions, and subroutines. (4 units) Prerequisite: MATH 153

CS 203 Computer Programming 2: Greater Knowledge and Expression in Programming Languages
Students work in teams on a programming project to practice their knowledge of programming and developing good programming practices. Topics include structured data types, recursion, pointers, and issues of program design, structure, and correctness. (4 units) Prerequisite: CS 201

CS 220 Data Structures: Fundamental Structures of Information at the Basis of All Computation
Students use computer programming laboratory problems to apply the principles of data structure organization in a practical environment and develop advanced programming skills. The organizing power of knowledge is found to be the source of order in computer data structures. Topics include abstract data types, internal representation of data, stacks, queues, linked lists, sparse arrays, hash coding, searching and sorting algorithms, dynamic storage allocation, and computing time of programs. (4 units) Prerequisite: MATH 162, CS 203
CS 222 Data and File Structures: Information Structures to Represent Larger Systems
Students continue the study of high-level data organization techniques. Topics include representations and algorithms for trees and graphs; file organization techniques; sequential, direct and indexed files; B-trees; and inverted and multi-list files. (4 units) Prerequisite: CS 220

CS 262 Computer Organization and Digital Logic: The Physiology at the Basis of All Computers — The Logical and Physical Structures of Digital Computation
This course presents the internal structure of a computer, an introduction to assembly language, and the design of digital logic circuits and their use in structuring the various functional components of a computer, such as the memory and central processing unit. Topics include machine organization, machine language, assembly language, logic gates, flip-flops, decoders, multiplexers, registers, combinatorial logic, and sequential circuits. (4 units) Prerequisite: MATH 153

CS 272 Discrete Structures: Models and Mathematics of the Structures of Natural Law at the Basis of Computation
Discrete mathematics is becoming increasingly important because of its wide applicability in computer science, as well as in management and the other sciences. Two key processes in discrete mathematics studied in this course are algorithmic problem solving and recursion. Topics include: logic and sets, graph theory, and difference equations. (Same as MATH 272) (4 units) Prerequisite: MATH 162

CS 299 Teaching Practicum in Computer Science
In this course, students gain practical experience in the teaching methods of computer science by serving as full-time teaching assistants in a basic undergraduate course. Assistants conduct laboratory sessions with small groups of students, grade laboratory exams and exercises, and assist students individually. (2 units) Prerequisite: consent of the department faculty

CS 310 Systems Programming: Connecting Hardware and Software — The Most Fundamental Level of Software in the Operating System
Students learn the systems programs that link the outer activity of high-level programming languages with the internal activity of the computer hardware. Knowledge of this deeper level of systems programs gives a greater range of possibilities to the programmer. Students learn system software such as compilers, linkers, loaders, and debuggers, and the structure and functions of an operating system including device management, process management, system calls, and memory management. (4 units) Prerequisite: CS 222 and CS 272
CS 335 Software Development: Applying Knowledge of Software Systems for Greater Skill in Action
CS 336 Software Development Laboratory: Practical Experience in Applying the Knowledge of Computer Science to Create Software Systems
In these courses, students participate in a comprehensive system development project to apply and integrate the concepts of software design and implementation. Topics include methods and tools for large system development including analysis, design, testing, and documentation. Students work in teams to develop a substantial programming project. (4 units each) Prerequisite: CS 222

CS 350 Programming Languages: The Abstractions at the Basis of Programming Languages — Gaining Mastery Over All Programming Languages
This course involves substantial programming exercises that give students practical experience with several different programming language paradigms. Topics include syntax and semantics of programming languages; data types and structures; control flow including blocks, subroutines, and recursion; implementation methods for semantic features; and comparison of several programming languages. (4 units) Prerequisite: CS 222

CS 362 Computer Architecture: The Physiology of Computing Systems — The Physical Structures Reflecting the Underlying Computational Processes
This course investigates the levels and components of computer hardware as they contribute to the functioning of the computer. Topics include RTL systems and notations, bus structures, arithmetic logic units, execution and control design, micro-program control, input-output interface, hardware-software interactions, and microprocessors. Students study the integration of these system components in a sample uni-processor system and through case studies of actual machines. (4 units) Prerequisite: CS 262

CS 390 Foundations of Modern Programming: Modern Programming Methods and Systems — Capture the Fundamental Principles of Knowledge for Greater Success in All Areas
This course presents the fundamental principles of object-oriented programming. Students will learn how to write reusable and better-maintained software, and integrate this knowledge with laboratory assignments and projects. Topics include: fundamental principles and models of object-oriented programming, UML class diagrams and design principles that promote reusability and maintainability of software. Also studied are stacks, queues, linked lists, and trees, using the Java programming language. Prerequisite: CS 220

CS 398 Computer Programming Internship: Knowledge and Experience for Maximum Growth
This course offers practical, professional experience in computer programming. Students apply classroom knowledge to an industrial or University project. During the internship, students submit detailed reports of their computer programming activities. (2 units) Prerequisite: consent of the department faculty and the Academic Standards Committee
Dual Graduate/Undergraduate Courses

This course presents the fundamental principles of object-oriented programming. Students will learn how to write reusable and better-maintained software, and integrate this knowledge with laboratory assignments and projects. Topics include: fundamental principles and models of object-oriented programming, UML class diagrams and design principles that promote reusability and maintainability of software. (2 units) Prerequisite: CS 220 or equivalent

CS 410 Modeling and Simulation: Software Models and Methods to Represent the Dynamics of Natural Law
This course studies models to enable a computer to simulate and predict the behavior of systems. Topics include discrete and continuous models, queuing models, process and event simulations, computer system models, and simulation languages and systems. (4 units) Prerequisites: CS 401 or consent of the department faculty.

CS 420 Numerical Analysis: Methods to Map Nature’s Infinite Precision into Finite Computing Systems
Scientific and engineering computer application requires advanced numerical techniques of manipulating and solving complex systems of equations with great efficiency and minimum error. Topics include numerical solution of linear equations, curve fitting, interpolation and polynomial equations, numerical integration and differentiation, solution of nonlinear equations, and error analysis. (4 units) Prerequisites: CS 401 or consent of the department faculty.

CS 422 Database Management Systems: Capturing the Organizing Power of Information in Structured Models, Representations, and Query Languages
Database management systems organize and retrieve information, allowing the user to access the desired information easily and efficiently. Topics in this course include relational, hierarchical, and network data models; query languages; relational calculus, data normalization, and schemas; file organization techniques; data security and integrity; and study of a specific commercial database management system. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 425 Software Engineering: Knowledge Is the Basis of Action — Principles and Processes for Developing Large-Scale Software Systems
This course introduces the major principles used in the development of software. General principles and methods are identified, and their application is located in various phases and models of software engineering. The focus is on understanding the organizing power inherent in the underlying concepts, principles, and processes, rather than any particular developmental method or model. Topics include: the nature and qualities of software; types and qualities of specifications; objectives of design; verification approaches; production process models; and classification of supporting tools and environments. (4 units) Prerequisite: CS 401 or consent of the department faculty.
CS 435 Algorithms: The Dynamics of Intelligence — The Relationship of Structure and Dynamics as the Basis for Efficient and Practical Software Development
This course presents methods for analyzing the efficiency of algorithms as well as a variety of known efficient algorithms. Topics include graph algorithms, combinatorial algorithms, searching and sorting, numerical and arithmetic algorithms, recurrence relations, computing time and space complexity of algorithms, and NP-complete problems. (4 units) Prerequisites: CS 401 or consent of the department faculty.

CS 440 Compiler Construction: Connecting Name and Form — The Source of All Programming Languages in Grammar and Semantics
Students learn the successive stages and detailed mechanics by which high-level programming languages are translated into machine language by a compiler. Topics include language and grammar specification, compiler structure, compiler generation tools, lexical analysis, parsing, syntax analysis, semantic analysis, intermediate language, code generation and optimization, storage management and linkages, user interface, and a large programming project implementing part of a compiler. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 450 Computer Communication Networks: Connecting the Parts and Whole — Frictionless Flow of Information
Computers are connected with high-speed communication lines in local area or wide area networks, for the purpose of sharing databases and distributing workloads to increase efficiency and improve service. Topics include sampling and information theory, error detecting and correction codes, network architecture, communication protocols and models, protocol analysis, hardware components, logical and physical topology, message routing and switching, flow control, local area networks, and data security. (4 units) Prerequisites: CS 401 or consent of the department faculty.

CS 455 Software Technologies: Advanced Principles of Natural Law in Software Systems
This course will cover the most current emerging methods, principles, and practices in software technologies and systems. The topics will vary, based on current technologies and instructor choices. (2 or 4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 460 Scientific Computing: Software Models and Methods to Represent the Mathematical Precision of Natural Law
This course presents methods and principles for the application of computing systems to scientific and engineering problems. Areas studied in this course are numerical methods, scientific computation, and applications. Specific topics covered are computational efficiency, accuracy and precision, root finding, Taylor series and function evaluation, interpolation and approximation, finite difference calculus, curve fitting, and numerical integration. (4 units) Prerequisites: CS 401 or consent of the department faculty.
CS 465 Operating Systems: The Most Fundamental Level of Software — Organizing Hardware Resources into Coherent Virtual Systems

An operating system controls the central resources of the computer system and allocates them to individual users. Course topics include sequential and concurrent processes, mutual exclusion, resource sharing, process cooperation, deadlock, resource allocation, processor scheduling, memory management, segmentation and paging algorithms, timesharing systems, scheduling algorithms, and resource protection. (4 units)
Prerequisite: CS 401 or consent of the department faculty.

CS 466 Computer Security

This course goes deeply into the three aspects of computer security: confidentiality, integrity, and availability. Several models for confidential and integrity security policies are studied. The role of cryptography in assuring confidentiality and integrity is examined. Other topics include authentication, auditing, penetration testing, common vulnerabilities and intrusion detection. The course concludes with the case study of a realistic secure system. Students will be asked to read papers from the security literature and apply them to material given in the lectures. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 467 Secure Coding Practices

The course examines the 19 issues that account for 95% of the security vulnerabilities that occur in the field. The issues are: buffer overflows, format string problems, integer range errors, SQL injection, command injection, failure to handle errors, cross-site scripting, failing to protect network traffic, use of "magic" URLs and hidden fields, improper use of SSL, use of weak password-based systems, failing to store and protect data securely, information leakage, improper file access, trusting network address information, race conditions (improper thread programming), unauthenticated key exchange, failing to use cryptographically strong random numbers, and poor usability. The final project of the course will analyze and remove vulnerabilities from a Web application. The course will emphasize that a computer programmer needs both broad comprehension and the ability to focus to produce secure software. (2 or 4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 470 Knowledge-Based Systems: Knowledge is the Basis of Thinking, Action, and Achievement — Creating Intelligent Software Systems

The field of artificial intelligence attempts to create computer programs that reflect the values of human intelligence. Course topics include state-space representations, tree and graph searches, predicate calculus and deduction, heuristics, learning and problem solving, natural language processing, expert systems, and programming languages for artificial intelligence. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 471 Parallel Programming

The standard processor for all new computers is now a multi-core processor, which has the potential to execute programs much more quickly. However, to utilize this potential, a programmer must have some knowledge of parallel programming techniques. During this course, students will spend most of their time writing and debugging parallel
programs. The expected outcome will be to develop a new level of practical programming skill. This skill will not only be useful for programming of multi-core processors, but also operating systems programming and distributed database programming. The software tools used during this course include Microsoft Visual C/C++, the OpenMP threading standard, and the Message-Passing Interface (MPI) standard. In addition to multi-core processors, this course also covers techniques for programming a computer *cluster* (many individual workstations networked together and working collectively on a single computation) (4 units) Prerequisite: CS 401 or consent of the department faculty.

**CS 472 Web Programming**
Learn to develop Web 2.0 applications using many newer technologies such as XHTML, CSS, JavaScript, PHP, MySQL, and Ajax. The course features a project-based approach to learning with hands-on exercises requiring programming skills. Students apply design strategies to make scalable websites and access data from other websites and servers. Emphasis will be on programming and solving design issues. (4 units) Prerequisite: CS 401 or consent of the department faculty.

**CS 475 Computer Graphics: How to Represent and Graphically Express the Dynamic Intelligence Captured in Software Systems**
One of the fastest growing areas of computer technology, computer graphics is used extensively to present the vast amount of information resulting from a computing process. This course studies data representation, display devices and graphics hardware, display lists, device independence, two-dimensional and three-dimensional graphics, display of curves and surfaces, hidden line and hidden surface removal, shading and rotation techniques, graphics languages, and introduction to image processing. (2–4 units) Prerequisite: CS 401 or consent of the department faculty.

**CS 476 Image Processing: Visual Expression of Total Knowledge**
The course presents the concepts and operations of digital image processing, which treats all images as a collection of binary pixels. The course studies how these billions of parts are treated as a single integrated image, and the mathematical and algorithmic aspects of and tools for processing these images. Topics include image representation and transformations, filtering, and Fourier domain filtering and transformations, edge detection, segmentation, and other processing operations. The course includes a substantial lab component. (2-4 units) Prerequisite: CS 401 or consent of the department faculty.

**CS 485 Theory of Computation: The Abstract Basis of All Possibilities in Computation**
Formal abstract models of computation study the fundamental limitations and capabilities of computers. This course presents a hierarchy of increasingly sophisticated abstract machines in relation to their increasing ability to recognize more general classes of formal languages. Topics include formal grammar, finite-state machines, equivalence of finite-state machines, right-linear and left-linear grammar, context-free languages, Turing
machines, unsolvable problems, and recursive functions. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 487 Distributed Computing and XML
This course will investigate the uses of XML in distributed computation. First an understanding of the W3C specifications for XML, XML Schema, XPath, XML namespaces, XSLT and XQuery will be acquired. Then three important applications of XML in distributed computing will be investigated: syndication, Web services and Ajax. Finally, advanced issues such as encrypted XML and binary XML will be considered. There will be daily labs using .NET 2.0. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 490 Topics in Computing
This course surveys and studies current technologies and application areas in computing. Typically it will include a substantial research and laboratory component to gain experience with advanced areas of computing and computer science. (2–4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 499 Directed Study: Faculty Directed Study of Specialized Topics
(Variable units) Prerequisite: consent of the department faculty

Graduate Only Courses

CS 501 Advanced Computer Architecture: Structured Intelligence — Computational Structures That Reflect the Dynamics of Computation
This course presents the methods, principles, and metrics of computer systems architecture. The interactions of hardware components, system architecture, and software algorithms are the basis for evaluating the performance and characteristics of a range of advanced computing systems. Topics include pipelined and multiprocessing architecture, parallel processing, distributed processing, case studies, and comparisons of existing systems. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 505 Advanced Programming Languages: The Integrated Source of All Programming Languages as a Basis for Understanding and Applying Principles of Programming
This course considers advanced topics in programming language design with emphasis on formal methods and abstraction mechanisms. Topics include data and control abstraction, formal specification of syntax and semantics, proofs of program correctness, non-deterministic programming, advanced control structures, and study of specific languages. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 510 Advanced Operating Systems: Extending the Qualities of Integration, Unity, and Efficiency to Both Local and Distributed Operating Systems
The course covers advanced topics in operating systems including analytical models and theory. Topics are selected from the following: models for parallel computation,
Petrinets, dataflow diagrams, distributed operating systems, queueing theory, system simulation, performance evaluation, dynamic protection concepts and mechanisms, and fault tolerant systems. (4 units) Prerequisites: CS 401 or consent of the department faculty.

CS 515 Advanced Theory of Computation: Locating the Basis of All Computation in the Abstract Field of Pure Intelligence
Formal models for computation and computability are surveyed, including an introduction to complexity theory. Topics include partial recursive, recursive, and primitive recursive functions; recursive and recursively enumerable sets; Gödel numberings; degrees of unsolvability; the recursion theorem; program schemes; and elementary complexity theory. (4 units) Prerequisite: CS 485

CS 525 Advanced Software Development: The Structures and Patterns of Natural Law in Software That Embody Knowledge of Good Design
This course considers the current methods and practices for good design of software systems. Topics include: software design patterns, frameworks, architectures, and designing systems to apply these multi-level abstractions. (2–4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 526 Software Architecture: The Unifying Principles in Large Software Systems
This course studies the overall structure, relationships, and dynamics of the software components that comprise various levels of a system, so that they form an integrated result that meets the design objectives. Topics include software components, component models, system specifications and modeling, and architectural patterns. Students will learn the principles, methods, and examples of good software architectures, and apply them in a project or presentation. (4 units) Prerequisite: CS 401 or consent of the department faculty.

CS 530 Topics in Database Systems: Higher-Level Structures in Information Reflecting Greater Knowledge of Natural Law
This course considers advanced issues in database management systems design and implementation. Topics include database transactions, constraint checking, security, integrity, recovery techniques, schemas and views of data, semantic data models, entity-relationship models, extended relational models, distributed databases, and database machines. (4 units) Prerequisite: CS 422

CS 535 Advanced Software Engineering: Advanced Principles of Coherency and Integration in Software Development Processes
This course considers advanced issues in software engineering. Course topics vary but are selected from areas that represent advanced practices in modern industry, e.g., software testing, object-oriented methodologies, and software requirements. (2–4 units) Prerequisite: CS 425
CS 545 Distributed Computing: Integration of Parts and Wholeness in Large-Scale Distributed Software Systems
This course presents the issues, methods, and techniques for creating multi-computing distributed systems across networked or more tightly coupled interconnect systems. Topics include communication, protocol, and synchronization; performance; and the architecture of server, client/server, multi-tier, and mobile agent distributed object systems. Software issues of portability, extendibility, and interoperability are also studied. (4 units) Prerequisite: CS 401

CS 547 Distributed Computing Architecture: Integrating Parts and Wholeness in Large-Scale Distributed Software Systems
This course discusses advanced issues and principles pertinent to modern enterprise systems, such as object-oriented middleware technologies, Message-Oriented-Middleware (MOM), distributed architecture, design patterns, and frameworks. (4 units) Prerequisite: CS 545

CS 550 Topics in Design and Analysis of Algorithms: Advanced Study of the Relationship of Form & Function in Software — Capturing Nature’s Perfect Efficiency
This course includes a survey of efficient algorithms in various areas, including analysis techniques and theoretical issues. Topics vary and are selected from the following: arithmetic and combinatorial algorithms, searching and sorting, numerical algorithms, probabilistic and parallel algorithms, proofs of correctness and efficiency, lower bounds, and average-case behavior. (4 units) Prerequisite: CS 435

CS 560 Topics in Numerical Methods: Methods to Represent Nature’s Infinite Precision in Finite Computing Systems
Specialized computational techniques for solving practical numerical problems in various areas of science and engineering are considered. Topics vary, including areas such as linear programming, optimization techniques, time series analysis, forecasting, Fourier transforms, finite element methods, solution of differential equations, and simulation. (4 units) Prerequisites: CS 420, MATH 306, and MATH 308

CS 570 Teaching of Computer Science
Students gain practical experience teaching computer science by serving as full-time teaching assistants in one of the basic undergraduate courses. Assistants conduct laboratory sessions with small groups of students, grade laboratory programs and exercises, and assist students individually. (2 units — may be repeated) Prerequisite: consent of department faculty

CS 575 Practicum in Software Development (away from Fairfield)
CS 576 Practicum in Computer Operations (in Fairfield)
In this practicum course, students perform computer-related tasks in a technical professional position. The tasks performed may be in the design and development of new systems or the application of existing systems for specific purposes. The job activities must relate to coursework studied during the Master's degree. Practicum job descriptions
are formulated by the employer and the student, and require approval in advance by one of the graduate faculty of the department, in consultation with the practicum supervisor where the student is placed. (These courses are primarily for students in the internship or cooperative programs.) (0.5–1 unit per block — may be repeated) Students need written authorization to take these courses.

**CS 577 Practicum in Administrative Applications of Computers (for on-campus interns)**

**CS 578 Practicum in Scientific Applications of Computers**

In these practicum courses, students perform computer-related tasks in one of the administrative or academic departments of the University. The tasks performed may be in the design and development of new systems or the application of existing systems for specific purposes, and require approval in advance by one of the graduate faculty of the department, in consultation with the practicum supervisor in the department where the student is placed. (These courses are primarily for students in the internship or cooperative programs.) (0.5 units each per block — may be repeated) Students need written authorization to take these courses.

**CS 579 Practicum in Teaching of Computer Science**

Students gain practical experience teaching computer science by serving as full-time teaching assistants in one of the basic undergraduate courses. Assistants conduct laboratory sessions with small groups of students, grade laboratory programs and exercises, and assist students individually. (This course is primarily for students in the internship or cooperative programs.) (0.5 units per block — may be repeated) Students need written authorization to take this course.

**CS 580 Seminar in Current Research Topics**

Advanced knowledge and current research issues are presented in a specialized area of computer science. The course includes readings of current journal articles in the field and a substantial independent project by students. (4 units — may be repeated) Prerequisite: consent of instructor

**CS 581 Seminar in Professional Computing: Advanced Topics in Nature’s Computing Processes**

This course provides topical knowledge relevant to professional applications of computing. Topics will vary each time it is offered. Topics may include: object-oriented programming, object-oriented analysis and design, client/server models and distributed systems, real-time programming, real-time systems, software quality assurance and measurement, applied AI and expert systems, and database management tools. (1 unit — may be repeated) Prerequisite: consent of department faculty

**CS 585 Integration Project and Comprehensive Examination**

This course reviews and integrates knowledge presented in the four graduate core courses: CS 465, CS 485, CS 501, and CS 505. Students write a substantial paper using the dynamics of the Unified Field of Natural Law as an intellectual framework to integrate the concepts presented in the four core courses. The course ends with a
comprehensive examination covering the core courses. (4 units) Prerequisites: CS 465, CS 485, CS 501, and CS 505

CS 586 Cooperative Research Project
Students conduct an extended project related to their cooperative practicum project. Students work with their supervisor and the faculty to add a research component to a main technical aspect of their work, and will present a final written report and oral presentation. (4 units) Prerequisite: consent of department faculty

CS 588 Directed Research
Students conduct an original research project with the guidance of the computer science faculty. (variable units) Prerequisite: consent of the department and the Academic Standards Committee

CS 591 Directed Study in Computer Science
CS 592 Directed Study in Computer Applications
CS 593 Directed Study in Mathematics
CS 595 Directed Study in Scientific Applications of Computers
CS 596 Directed Study in the Science of Creative Intelligence
In these courses the student spends six hours per week in the evenings covering material from one of the regular courses, or special material selected by the faculty according to the needs and program of study of the student. In some cases, a faculty member outside the Department of Computer Science supervises the directed study. However, the selection of material to be covered and the final evaluation is subject to the approval of the graduate faculty. (These courses are for students in the internship program only.) (1–2 units each — may be repeated) Prerequisite: consent of department faculty

CS 598 Computer Science Internship
This course offers practical, professional experience in computer programming. Students apply classroom knowledge to an industrial or University project. During the internship, students submit detailed reports on their computer programming activities. (2 units) Prerequisites: consent of the department and the Academic Standards Committee and written authorization

CS 599 Directed Study
(4 units) Prerequisite: consent of the department faculty
DEPARTMENT OF EDUCATION

FACULTY
• Christopher Jones, Ed.D., Chair, Professor of Education
• Paula Armstrong, M.A., Assistant Professor of Education
• Sandy Nidich, Ed.D., Professor of Education, Associate Director of the Institute for Natural Medicine and Prevention
• Fred Travis, Ed.D., Professor of Maharishi Vedic Science, Dean of the Graduate School
• Ken Daley, M.Ed., Associate Professor of Education and Exercise and Sport Science
• Eric Hart, Ph.D., Adjunct Associate Professor of Mathematics and Mathematics Education

INTRODUCTION

The Department of Education is designed to provide students with the knowledge, skills, and abilities they need to teach anything to anyone. Students learn curriculum planning, instructional strategies, and assessment techniques appropriate to public and private schools and classrooms. Even those interested in corporate training, nontraditional education, or parenting will find many useful ideas and strategies in the courses of the education program. Most important of all, students in the program grow spontaneously in those qualities of great teachers — confidence, creativity, intelligence, resourcefulness, vitality, efficiency, and kindness.

The teacher education programs are approved by the State of Iowa and incorporate all regional and national standards, but only in this program can one become an expert in Consciousness-Based education, the most successful system of education in the world. This approach awakens students’ total brain potential, so that they are naturally focused and eager to learn. Teachers in training learn to cultivate the precious potential of the world’s children and prepare them to lead the world to a better time — where every school in the world radiates lasting peace to its community.

Programs Offered
• B.A. in Elementary Education (one year of full-time study for single subject specialists and one-and-one-half years of full-time study for the K–6 self-contained classroom). A major in elementary education focuses on teaching in the elementary school and developing leadership ability. Students may be prepared as traditional elementary school teachers or as specialists in one subject area. Both programs develop effective teachers as well as prepare students for graduate study related to elementary education. Structured into the programs are systematically guided experiences of observing, analyzing, assisting, and practicing teaching in elementary school classrooms. The elementary education programs are approved by the Bureau of Practitioner Development and Licensure of the Iowa Department of Education. Graduates of these programs may be licensed to teach in public or private schools in Iowa and be eligible for
teaching credentials in all 50 states. The subject areas in which elementary specialists may be prepared for initial licensure are: art, language arts, mathematics, and science. We also offer additional endorsements to licensed teachers in all of the above subjects.

• **B.A. in Secondary Education** (one year of full-time study). This program prepares students for careers as teachers of single subjects in the secondary school. Students who wish to teach at the secondary level must complete a major in the subject they wish to teach as well as a major in secondary education. Teaching tracks are available within the art, English, mathematics, and business majors. Teaching tracks require from 40 to 60 semester hours of course work, which may be fewer than the number of hours of course work required for other tracks in the same major. Subjects for which our teacher education program prepares students for initial licensure are: art, English, mathematics, and biology. We also offer additional endorsements to licensed teachers in all of the above, plus general science.

The secondary education program is approved by the Bureau of Practitioner Development and Licensure of the Iowa Department of Education. Graduates of this program may be licensed to teach in public or private schools in Iowa and be eligible for teaching credentials in all 50 states.

• **Minor in Educational Foundations**, which offers a broad understanding of the psychological, philosophical, and sociological foundations of education. Students learn the principles of modern social science and of Consciousness-Based education that guide the design of educational curricula and classroom instruction. They also have frequent opportunities to view model education programs in regional elementary and secondary school classrooms, including the award-winning Maharishi School.

• **M.A.T. in Secondary Education** (one year of full-time study). This program prepares students for careers as teachers of single subjects in the secondary school. Students who wish to teach at the secondary level must have completed a major in the subject they wish to teach. Subjects for which our teacher education program prepares students for initial licensure are: art, English, mathematics, and biology. We also offer additional endorsements to licensed teachers in all of the above, plus general science.

• **M.A.T. in Elementary Education** (one year of full-time study for single subject specialists and one-and-a-half years of full-time study for K–6 self-contained classroom). This program prepares students for careers as elementary school teachers or as single subject specialists at the elementary level. In addition to providing the foundational knowledge of teaching and curriculum, it provides knowledge and experience of teaching methods in the elementary subject areas.

*Note:* Each of the above programs can also be taken as a “Certificate Only” program, without enrolling in a degree program. Subjects for which our teacher education program prepares students for initial licensure are: art, English, mathematics, and biology. We also offer additional endorsements to licensed teachers in all of the above, plus basic science for elementary, general science at the secondary level, physics, and secondary business.
SPECIAL FEATURES

• **New knowledge:** In the Maharishi University of Management education department, with our Consciousness-Based approach, students gain a holistic understanding of human potential and learn how to teach so that they nourish the whole student. This holistic approach is needed in order to deal with the problems of low academic achievement and antisocial behavior that afflict our schools today. In addition, in each class, students learn how the main concepts of their discipline are connected to the discipline as a whole and how the whole of the discipline is connected to the deepest levels of the student.

• **Stimulating and supportive classroom environment:** Classes in the education department are taught in an active, seminar-style format that promotes full intellectual engagement. Students get individualized attention from faculty who spend on average 30% more time with students than at other institutions. In accord with the University’s emphasis on holistic development, classes are also structured to be friendly and supportive, so that students grow continuously in health, happiness, creativity, and self-confidence.

• **Excellent field experience program:** The education department has an extensive field experience component that places students in the classroom from their first days in the program. Elementary education students have about 170 hours of classroom experience prior to student teaching, and secondary education students have about 60 hours. Experience is gained both in the area’s excellent public schools and in the University’s award-winning K–12 laboratory school. This highly successful school serves as a model of Consciousness-Based education for other schools around the world.

• **Electronic portfolios:** Students create an electronic portfolio of their work as part of the program. The portfolio synthesizes and presents the student’s accomplishments in the program, including papers, projects, and exams, examples of their students’ work, videotaped examples of their teaching, and observational reports others have made of their work. The portfolio is installed on the Internet and on compact disk, and it is an ideal tool for presenting graduates to potential employers.

• **Personal growth:** Teaching is a giving profession, and one can only give what one has. Ralph Waldo Emerson once said of teaching that it “involves at once, immense claims on the time, the thought, on the life of the teacher . . . and only to think of it implies character and profoundness.” Maharishi University of Management offers an education program that develops students as whole human beings so that every day they have more to give to their students. As a result of this growth, education students at the University become not only better educators, but also better parents, better spouses, better friends.
DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the B.A. in Elementary or Secondary Education
Before entering a major in elementary or secondary education, students must complete a total of 30 units of undergraduate course work. Students planning to teach a single subject must take at least 20 units of course work in that subject. After taking a sequence of foundational courses in education, students are reviewed for acceptance into the teacher education program.

The following criteria are considered in evaluating candidates:
• General Education Requirement: completed course work in the humanities, mathematics, biological or physical sciences, and the social or behavioral sciences. All students must also successfully complete MATH 152 Elementary Algebra as a prerequisite for entry into the program.
• Demonstration of Competency in Basic Skills: In compliance with State of Iowa standards for teacher education, candidates are required to pass the PRAXIS® I test of basic reading, writing and math skills. This test must be taken either in paper or electronic form prior to Block 3 in their first semester in the program. Students must attain a minimum score of 168 on each test and an average of 170.
• Personal Maturity: a written or phone recommendation from a University faculty member who knows the student well. In addition, applicants submit a brief statement of purpose. A personal interview with a member of the faculty of the Department of Education may be requested.
• General Academic Ability: an official record of previous undergraduate work showing a grade point average of 2.5 or better. Candidates are expected to have a 3.0 average or better in their subject field.
• Performance in Education Courses: a GPA of 3.0 or better in education courses taken.

The department may choose to admit provisionally a student who shows particular promise as a teacher, yet who does not meet all of the above criteria. In this case a plan will be developed with the student by which the deficiency can be monitored and remedied prior to student teaching at which time a student will be fully admitted or asked to withdraw. A teacher education student is expected to maintain a “B” average in all required course work in the department in order to be admitted to student teaching. Students who do not maintain a “B” average may still complete the major in education and even complete an internship in a field placement, but they will not therefore be eligible for recommendation to a license.

Additional Requirements for the B.A. in Secondary Education or Elementary Education Specialist

Students who wish to specialize in a specific subject, either at the elementary or secondary level, must complete a major, which may be a teaching major, in that subject as well as the major in education. A teaching major is either the standard major or a track within an academic major designed to prepare a student to teach that subject in an elementary or secondary school. Teaching majors at the University require 40 to 60 units
of course work. Specific information regarding the requirements for a teaching major may be obtained from the education department office.

The University’s education program prepares students for initial licensure in the following subjects: art, biology (environmental science), English, and mathematics. We also offer additional endorsements to licensed teachers in all of the above subjects plus basic science at the elementary level, general science at the secondary level, business, and physics. Additional endorsements require 15 to 24 units of course work in the area of specialization.

Both the secondary and elementary education programs are approved by the Bureau of Practitioner Preparation and Licensure of the Iowa Department of Education and successful completion of these programs prepares one to gain an Iowa teaching license in one’s chosen field.

NOTE: Students considering a specialization in a single subject should consult the department early in their undergraduate studies to plan to meet State of Iowa requirements for course work in their teaching area and to reserve a position for student teaching.

Graduation Requirements for the B.A. Degree in Secondary Education

To graduate with a B.A. degree in secondary education, students must complete the general requirements for a bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) The requirements for the major are two semester-long modules.

38 units of course work as follows:
• ED 308 Organizing the Digital Teaching Portfolio (2 units)
• ED 320 Understanding Learning and Development in Children (4 units)
• ED 323 Overview of American Education (2 units)
• FOR 422 Human Relations (2 units)
• ED 326 Teaching Exceptional Children (2 units)
• ED 332 The Science and Art of Teaching (4 units)
• ED 480 Methods of Teaching in Secondary School (4 units)
• ED 349 Mastering Classroom Management (3 units)
• ED 490 Student Teaching — Secondary School (12 units)*
• ED 495 Creating a Digital Teaching Portfolio (4 units)
*(Some students may be required to complete an additional 10 units.)

Graduation Requirements for the B.A. in Elementary Education

To graduate with a B.A. degree in elementary education, students must complete the general requirements for a bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) The requirement for the major is 38 to 58 units of course work as follows, depending on which option is chosen:

23 units of required courses:
• ED 308 Organizing the Digital Teaching Portfolio (1 unit)
• ED 320 Understanding Learning and Development in Children (4 units)
• ED 332 The Science and Art of Teaching (4 units)
• ED 323 Overview of American Education (2 units)
• FOR 422 Human Relations (2 units)
• ED 326 Teaching Exceptional Children (2 units)
• ED 349 Mastering Classroom Management (3 units)
• ED 495 Creating a Digital Teaching Portfolio (4 units)

In addition, students choose one of the following options:

**Option 1: Elementary School Teacher (generalist) (38 units)**
• ED 333 Enlightened Literature for Children (3 units)
• ED 372 Teaching Art — Elementary (1 unit)
• ED 369 Teaching Elementary Mathematics (4 units)
• ED 371 Methods of Teaching Elementary Reading and Language Arts (4 units)
• ED 370 Teaching Elementary Science (4 units)
• ED 376 Teaching Physical Education — Elementary (1 unit)
• ED 368 Teaching Elementary Social Studies (3 units)
• ED 494 Student Teaching in the Elementary School (18 units) *

**Option 2: Elementary School Single Subject Specialist (16 units)**
• ED 494 Student Teaching in the Elementary School (12 units) *
• ED 358 Teaching a Single Subject in the Elementary or Secondary School (4 units)

*(Some students may be required to complete an additional 4–10 units.)*

NOTE: Students who wish to specialize in a single subject should consult the department early in their undergraduate programs to plan to meet State of Iowa requirements for course work in their teaching area and to ensure a position for student teaching.

**Requirements for the Minor in Educational Foundations**
To graduate with a minor in educational foundations, students must complete 16 units of course work in education to include the following:
• ED 320 Understanding Learning and Development in Children (4 units)
• ED 332 The Science and Art of Teaching (4 units)
• ED 323 Overview of American Education (2 units)
• ED 308 Organizing the Digital Teaching Portfolio (1 unit)
• ED 326 Teaching Exceptional Children (2 units)
• ED 349 Mastering Classroom Management (3 units)
plus 4 units of additional course work in education

**Entrance Requirements for All Master of Arts Degrees in Education**
Applicants should submit transcripts from undergraduate study, letters of recommendation, and a personal essay. Applicants are expected to have attained an overall GPA during undergraduate study of at least 2.50. Applicants to the M.A.T. degree programs must obtain a passing score on the PRAXIS I® test of basic skills, administered by the Educational Testing Service, before block 3 in the first semester. A personal interview is also highly recommended.
Entrance Requirements for the Master of Arts in Teaching Degree
To be accepted to the Master of Arts in Teaching program, specializing in either elementary or secondary education, students are expected to meet the following criteria:

1) an in-depth knowledge of one’s chosen field of specialization (where one is teaching a single field), as indicated by a grade point average for courses in that subject of at least 3.0 on a four-point scale;
2) all candidates will have to meet the course work requirements in their field of specialization, as determined by the Maharishi University of Management Department of Education together with the State of Iowa. (Candidates for the mathematics high school teaching license, for example, will have to have taken course work in linear algebra or in abstract (modern) algebra, postcalculus geometry, calculus, computer programming, probability and statistics, and discrete mathematics.) For course work requirements in all fields, please consult the Department of Education directly at 641-472-7000, ext. 5021.
3) a liberal arts background, including course work in the humanities, mathematics, biological or physical sciences, and social or behavioral sciences;
4) dedication to and ability to profit from advanced study in the field of education as verified through personal and professional recommendations, a written statement of purpose, and references;
5) personal maturity, motivation, and stable judgment necessary to be a successful teacher, as shown by personal and professional recommendations, references, and positive evaluation of dispositions for teaching during the foundational courses in education; and
6) understanding of and commitment to one’s growth as an educator as expressed in a brief personal essay.
7) International applicants will be expected to have excellent communication skills in English as demonstrated either by five or more years of instruction entirely in English or TOEFL scores of 600 or better on the written test. All applicants must also pass an English interview by phone, whether or not they have been instructed in English.

Students are required to maintain a “B” average to remain in good standing in the program.

Graduation Requirements for the Master of Arts in Teaching Degree in Secondary Education
To graduate with an M.A.T. degree in secondary education, students must complete the general requirements for a master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) Program requirements are completion of 38 units of the following course work:

38 units of required courses:
• ED 549 Classroom Management (3 units)
• ED 567 Organizing the Digital Portfolio (2 units)
• ED 507 Overview of American Education (2 units)
• ED 520 Understanding Learning and Development in Children (4 units)
• FOR 422 Human Relations (2 units)
• ED 526 Teaching Exceptional Children (2 units)
• ED 548 The Science and Art of Teaching (4 units)
• ED 556 Methods of Teaching in the Secondary School (4 units)
• ED 569 Student Teaching — Secondary School (12 units)*
• ED 595 Creating a Digital Teaching Portfolio (4 units)

* Students may be asked to take up to 10 additional units at the judgment of the supervising faculty for student teaching

Graduation Requirements for the Master of Arts in Teaching Degree in Elementary Education

To graduate with an M.A.T. degree in elementary education, students must complete the general requirements for a master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) Students who wish to specialize in a single subject must have completed a teaching major in that subject. Program requirements are completion of 38–58 units of the following course work:

22 units of required courses:
• ED 549 Mastering Classroom Management (3 units)
• ED 507 Overview of American Education (2 units)
• ED 520 Understanding Learning and Development in Children (4 units)
• FOR 422 Human Relations in Education (2 units)
• ED 526 Teaching Exceptional Children (2 units)
• ED 548 The Science and Art of Teaching (4 units)
• ED 567 Organizing the Digital Portfolio (1 unit)
• ED 595 Creating a Digital Teaching Portfolio (4 units)

In addition, students choose one of the following options:

Option 1: Elementary School Teacher (generalist) (38 units)
• ED 527 Enlightened Literature for Children (3 units)
• ED 554 Teaching Elementary Mathematics (4 units)
• ED 560 Teaching Elementary Science (4 units)
• ED 571 Methods of Teaching Elementary Reading and Language Arts (4 units)
• ED 573 Teaching Elementary Social Studies (3 units)
• ED 574 Methods of Teaching Art — Elementary (1 unit)
• ED 576 Methods of Teaching Physical Education — Elementary (1 unit)
• ED 568 Student Teaching in the Elementary School (18 units)*

Option 2: Elementary School Single Subject Specialist (17 units)
• ED 491 Specialized Student Teaching — Elementary School (12 units)*
• ED 558 Special Methods for the Elementary School (4 units)
*(Some students may be required to complete an additional 4–10 units.)
Teaching Certificate Programs

The Consciousness-Based approach to education at the University develops the qualities of great teachers — self-confidence, creativity, intelligence, vitality, efficiency, and kindness. Our teaching certificate programs incorporate all the regional and national standards for teacher education and lead to teaching licensure for the State of Iowa. The Iowa Teaching License allows graduates to begin teaching and quickly gain licensure in any of the other 49 states and in international schools all over the world.

In our program, we introduce cutting-edge knowledge that — along with our emphasis on development of personal qualities of leaders — prepares teachers who are able to kindle the love of knowledge in their students and make groundbreaking advances in educational practice.

Students who have a bachelor’s degree from an accredited college, with a GPA of at least 2.50, may apply to the teaching certificate program. The course requirements for this program are the same as those for the undergraduate major in education. The certificate program thereby offers an alternative to the master’s degree in teaching for students who already have a master’s degree or who do not wish to seek a master’s degree.

Students in the teaching certificate program must maintain a GPA of 3.0 or higher to remain in the program.

Certificates Offered

• **Certificate in Elementary Education**, including subject matter specialists (one to one-and-one-half years of full-time study). A certificate in elementary education focuses on teaching in the elementary school and developing leadership ability. Students may be prepared as traditional elementary school teachers or as specialists in one subject area. Both programs develop effective teachers and prepare students for graduate study related to elementary education. Structured into the programs are systematically guided experiences of observing, analyzing, assisting, and practicing teaching in elementary school classrooms.

The Elementary Education Programs are approved by the Bureau of Practitioner Development and Licensure of the Iowa Department of Education. Graduates of these programs may be licensed to teach in public and private schools in Iowa and be eligible for teaching credentials in all 50 states. The subject areas in which elementary specialists may be prepared for initial licensure are: art, language arts, mathematics, and science. We also offer additional endorsements to licensed teachers in all of the above subjects.

• **Certificate in Secondary Education** (one year of full-time study). This program prepares students for careers as teachers of single subjects in the secondary school. Students who wish to teach at the secondary level must have completed a major in the subject they wish to teach. Subjects for which our teacher education program prepares students for initial licensure are: art, English, mathematics, and biology. We also offer additional endorsements to licensed teachers in all of the above, plus general science.
The Secondary Education Program is approved by the Iowa Department of Education. Graduates of this program may be licensed to teach in public or private schools in Iowa and be eligible for teaching credentials in all 50 states.

**Entrance Requirements for the Certificate Programs in Elementary or Secondary Education**

Before entering a certificate program in elementary or secondary education, students must have completed a bachelor’s degree program from an accredited college. Otherwise, the entrance requirements are identical to those for the M.A.T. programs in elementary or secondary education.

**Completion Requirements for the Certificate in Secondary Education**

To complete the certificate program in secondary education, students must complete the general requirements for a certificate program. (Please refer to “Certificate Programs” in “Academic Policies.”) The requirements are two semester-long modules (38 units) of course work as follows:

38 units of course work as follows:

- ED 308 Organizing the Digital Teaching Portfolio (1 unit)
- ED 320 Understanding Learning and Development in Children (4 units)
- ED 323 Overview of American Education (2 units)
- FOR 422 Human Relations (2 units)
- ED 326 Teaching Exceptional Children (2 units)
- ED 332 The Science and Art of Teaching (4)
- ED 480 Methods of Teaching in Secondary School (4 units)
- ED 349 Mastering Classroom Management (3 units)
- ED 490 Student Teaching — Secondary School (12 units)*
- ED 495 Creating a Digital Teaching Portfolio (4 units)

*(Some students may be required to complete an additional 10 units.)*

**Completion Requirements for the Certificate in Elementary Education**

To complete the certificate program in elementary education, students must complete the general requirements for a certificate program. (Please refer to “Certificate Programs” in “Academic Policies.”) The requirement for the major is three semesters in length with 38 to 58 units of course work as follows, depending on which option is chosen:

22 units of required courses:

- ED 308 Organizing the Digital Teaching Portfolio (1 unit)
- ED 320 Understanding Learning and Development in Children (4 units)
- ED 332 The Science and Art of Teaching (4 units)
- ED 323 Overview of American Education (2 units)
- FOR 422 Human Relations (2 units)
- ED 326 Teaching Exceptional Children (2 units)
- ED 349 Mastering Classroom Management (3 units)
- ED 495 Creating a Digital Teaching Portfolio (4 units)
In addition, students choose one of the following options:

**Option 1: Elementary School Teacher (generalist) (36 units)**
- ED 333 Enlightened Literature for Children (3 units)
- ED 372 Teaching Art — Elementary (1 unit)
- ED 369 Teaching Elementary Mathematics (4 units)
- ED 371 Methods of Teaching Elementary Reading and Language Arts (4 units)
- ED 370 Teaching Elementary Science (4 units)
- ED 376 Teaching Physical Education – Elementary (1 unit)
- ED 368 Teaching Elementary Social Studies (3 units)
- ED 494 Student Teaching in the Elementary School (18 units)*

**Option 2: Elementary School Single Subject Specialist (16 units)**
- ED 491 Specialized Student Teaching — Elementary School (12 units)*
  plus 4 units of special methods courses: ED 351–367
  *(Some students may be required to complete an additional 4–10 units.)*

**COURSES**

**Undergraduate Courses**

**ED 100 The Transcendental Meditation Program: Developing the Total Potential of the Human Brain**
The Transcendental Meditation technique is a simple, natural, effortless procedure to develop full human potential and culture experiences of higher states of human consciousness. Research indicates that the individual practice of the Transcendental Meditation technique provides a unique state of deep physiological rest that dissolves accumulated stress and tension while increasing intelligence, creativity, happiness, and self-actualization; increasing energy and improving health; and enhancing personal relationships.

This course will cover the nature of the practice of the Transcendental Meditation technique, scientific research, and its applications in individual life and society. Personal instruction in the Transcendental Meditation technique will be included in this course.

The laboratory component of this course will include twice-daily practice of the Transcendental Meditation technique and a weekend in-residence course.

**ED 101 The Transcendental Meditation Program: Developing the Total Potential of the Human Brain**
The Transcendental Meditation technique is a simple, natural, effortless procedure to develop full human potential and culture experiences of higher states of human consciousness. Research indicates that the individual practice of the Transcendental Meditation technique provides a unique state of deep physiological rest that dissolves accumulated stress and tension while increasing intelligence, creativity, happiness, and
self-actualization; increasing energy and improving health; and enhancing personal relationships.

This course will cover the nature of the practice of the Transcendental Meditation technique, scientific research, and its applications in individual life and society. Personal instruction in the Transcendental Meditation technique will be included in this course. The laboratory component of this course will include twice-daily practice of the Transcendental Meditation technique and three months of follow-up meetings and lectures.

ED 119 Teaching for Enlightenment: An Introductory Experience
What can human beings become? What can culture attain? In every age, great thinkers have asked these questions and through their answers have given expression to a vision of what humankind could achieve through education.

This course introduces students to the ideas of these great thinkers and their ideas about education. Leading all thinkers is His Holiness Maharishi Mahesh Yogi, whose Consciousness-Based education fulfills the long-sought goals of education — enlightenment for the individual and invincibility for the nation. Students investigate the leading theories and approaches of education, as well as practical principles of teaching and curriculum design. Working in teams, they design a lesson that is taught to children in our model school on campus, Maharishi School of the Age of Enlightenment. In the process of teaching their lessons, students test their ideas in practice and evaluate their effectiveness based on observed results. Students use the knowledge of modern social science and the Science of Creative Intelligence to gain a comprehensive, integrated view of education. (2 units) (Distribution Area: Social Sciences) Prerequisite: FOR 101

ED 205 American Education in Transition: Creating National Peace and Invincibility through Education
Like Overview of American Education, this course reviews the history and philosophy of private and public education in America from its founding. Students examine the range and depth of education from the perspective of the family, the church, schools, and businesses. They study educational reform efforts from home schooling to distance learning to large-scale reform in the urban centers of the country to the many new institutions of Consciousness-Based education. Both the range and variety of educational efforts are put in the light of the Vedic Science goals of education — permanent peace and invincibility to the nation. The course includes numerous field trips to educational sites and therefore includes an extra travel fee. Prerequisite: FOR 101

ED 308 Organizing the Digital Teaching Portfolio: Documenting the Growth of an Ideal Educator through Mastery of Ancient and Modern Technologies
In this course students gain a brief introduction to the fundamentals of digital design and information transfer. They create the shell of what will become their digital portfolio and they learn how to upload and download text, pictures, and video files. This course prepares students for the process of gathering artifacts for their portfolio over the rest of the program. (1 unit) Prerequisite: FOR 101
ED 309 Teaching with HyperStudio: Expressing the Unbounded in Print and Pictures
Hypermedia is becoming an increasingly common form of instruction. The Worldwide Web and many educational CD-ROMs are examples of hypermedia. This course explores the theory and practice of creating materials in this multisensory, multiple pathway format. Students will produce an interactive hypermedia project using multimedia authoring software. This project will integrate text, graphics, voice, music, and hyperlinks. (1 unit) Prerequisite: FOR 101

ED 310 Consciousness-Based Education
This course examines the fundamental goals, principles, and practices of Consciousness-Based education as developed by His Holiness Maharishi Mahesh Yogi and develops students’ speaking skills on these subjects. Topics include the history of education, educational reform, problems and solutions in contemporary education, scientific research on Maharishi Vedic Science and TechnologySM as applied to education, Dr. Tony Nader’s discovery of Veda in human physiology, and six pillars of Vedic technology for reform of education. (2 units) Prerequisite: FOR 101

ED 311 Creating a Digital Teaching Portfolio: Documenting the Growth of an Ideal Educator through Reflection on the Three-Fold Nature of Teaching and Learning
This course provides students with the time and supervision necessary to prepare a portfolio of the work they completed while in student teaching. Students learn the basics of hypermedia design (Web design) and create a showcase portfolio presenting their work to potential employers and to the University faculty. The portfolio is then evaluated by a panel of faculty in partial fulfillment of the requirements for a Master of Arts in Teaching. (2–4 units) Prerequisite: FOR 101

ED 315 Learning Strategies: Applying the Total Brain to the Process of Learning
This course focuses on the process of learning. It presents a range of learning strategies that are useful across academic curricula as well as non-academic learning experiences including: reading different types of text, making oral presentations, writing, gaining maximum from lectures, and preparing for and taking examinations. Strategies explored include mapping, creating a learning context, reviewing, and relating all learning processes to oneself. (2 units) Prerequisite: FOR 101

ED 320 Understanding Learning and Development in Children: How Pure Intelligence Comes to Know Itself through the Child’s Developing Nervous System
This course has two parts: the first deals with theories of human development; the second deals with theories of learning. The first part of the course looks at theories of both cognitive and affective development and deals with topics such as factors influencing development, endpoints of development, and the nature of intelligence. The second part of the course focuses both on cognitive and behavioral views of learning. Topics include classical and operant conditioning, social learning, information processing, problem solving, creativity, and constructivism. (4 units) Prerequisite: FOR 101
ED 323 Overview of American Education: Consciousness-Based Education as the Fulfillment of the American Educational System
This course provides an introduction to the structure and functioning of American education today. Topics covered include the history of American education, national, state, and local influences on education, legal parameters of education, school finance, careers in education, and directions in educational reform. (2 units) Prerequisite: FOR 101

ED 324 Human Relations in Education: Developing the Skill of Ideal Communication on the Ground of Infinite Correlation
This course considers the relationship between the individual and society, and between individual cultures in a pluralistic society. Students study major theories from social psychology, multiethnic and multicultural education, and interpersonal communication. (variable units) Prerequisite: FOR 101

ED 325 Introduction to Holistic Education: Enlivening Wholeness of Life
This course provides an introduction to the Teacher Education Program. It is team-taught and gives an overview of all major areas of the program. The course gives special emphasis to the rationale for holistic educational goals and teaching practices and introduces students to the educational writings of His Holiness Maharishi Mahesh Yogi and other leading educational theorists. It also emphasizes key technology skills, such as PowerPoint and Web design, which are used throughout the program. A major outcome of the course is that students create the first statement of their philosophy of education. (2 units) Prerequisite: FOR 101

ED 326 Teaching Exceptional Children: Promoting Total Brain Functioning While Upholding the Diversity of Creation
This course introduces the learning characteristics of gifted and handicapped students, and explores strategies and practices that elementary and secondary school teachers can use for exceptional students in group learning environments. Topics include identifying the exceptional student, assuring due process, creating least restrictive environments, preparing the individual education plan (IEP), and evaluating. (variable units) Prerequisites: ED 320, ED 332

ED 330 Curriculum and Evaluation: Planning for Achievement and Fulfillment
This course introduces educational planning and assessment in light of the principle from Consciousness-Based education that every part of knowledge should be connected to the whole of knowledge and the whole to the Self. In this planning students learn to create a wholeness, main points, objectives, essential questions, critical tasks, and tests for a unit of instruction. For tests students learn how to design multiple choice, essay, and performance assessments. (4 units) Prerequisite: FOR 101

ED 332 The Science and Art of Teaching: Developing Skill in Action from the Platform of Total Knowledge
This course introduces students to two essential areas of study in classroom teaching, K–12: general principles of teaching and classroom management. Students prepare and carry
out lessons in mini-teaching and real classroom situations. Topics include: principles of
teaching, teaching strategies, classroom management, communicating with parents, and
professional ethics and responsibilities. (4 units) Prerequisite: FOR 101

**ED 333 Enlightened Literature for Children: Identifying Life-Supporting Literature to Prepare Children for the Age of Enlightenment**
Students learn the fundamentals of designing and organizing a comprehensive reading
program for children in the classroom. Topics include establishing criteria for selection
and interpretation of children’s books, designing warm-up and follow-up activities to
reading, and developing children’s appreciation for literature. (variable units)
Prerequisite: FOR 101

**ED 349 Mastering Classroom Management: Gaining Leadership in the Classroom through the Authority of the Total Potential of Natural Law**
Students learn the basic principles of leadership and classroom management from
Maharishi’s Principles of Ideal Teaching and the social science literature. They practice
specific time-honored techniques and they practice developing the judgment of a leader
through numerous case studies. Topics include: understanding student needs, motivation,
building relationships in the classroom, dealing with minor disruptions and chronic
misbehavior, and problem-solving with students. Prerequisite: FOR 101

**ED 351 Elementary Art Teaching Methods**
**ED 353 Elementary Language Arts Teaching Methods**
**ED 357 Elementary Mathematics Teaching Methods**

**ED 358 Teaching a Single Subject in the Elementary or Secondary School: Laying the Foundation for Enlightened Leadership**
This course introduces the process of curriculum development and the instructional
methods appropriate for teaching a single subject in the elementary or secondary school.
The course is co-taught by University and school faculty. Students are placed in a
classroom where they spend approximately 25 hours over the course of the month. They
assist in the classroom, observe methods of instruction, and plan a unit to be taught later
during their student teaching. Topics include structure of the discipline, broad ideas of the
discipline, national standards in one’s field, instructional strategies special to one’s field,
curriculum design, principles of sound assessment, reading across the curriculum, and
data-based instructional decision making. (4 units) Prerequisite: ED 548 The Science and
Art of Teaching.

**ED 368 Teaching Elementary Social Studies: Using Examples from the Past to Prepare Ideal Citizens**
This course presents an introduction to social studies, including the variables that
influence society (geography, religion, ethics, social norms, and folkways) and social
studies teaching methods and materials. (variable units) Prerequisites: ED 332, ED 326
ED 369 Teaching Elementary Mathematics: Exploring the Structure of Pure Knowledge in Theory and in Practice
This course introduces teaching methods for arithmetic, computation, and basic mathematical concepts. Topics include strategies for teaching mathematics in accordance with the stages of children’s cognitive development and for teaching pre-number and number concepts, place value and numeration, whole numbers, addition, subtraction, multiplication, and division. (variable units) Prerequisites: ED 332, ED 326

ED 370 Teaching Elementary Science: Discovering the Self, the Constitution of the Universe, as the Basis of All Natural Phenomena
This course prepares the teacher candidate to foster scientific inquiry and problem solving in elementary school children. Topics include scientific concepts, scientific literacy, and science methods and materials in the elementary school. (variable units) Prerequisites: ED 332, ED 326

ED 371 Methods of Teaching Elementary Reading and Language Arts: Understanding and Experiencing How the Language Arts Develop Self-Referral in Teacher and Student
This course is an introduction to methods and materials for teaching reading and language arts in the elementary school classroom. Topics include diagnosis and evaluation of reading skills and comprehension; word attack, vocabulary, and comprehension strategies for reading instruction; the reading/writing connection; strategies for developing listening and speaking skills; expository and narrative writing; writing poetry; integrating the language arts throughout the curriculum; analysis of commercial reading education materials; use of technology in teaching reading and language arts; and reading materials and methods for students with special needs. Students will apply what they are learning as they spend part of each day in an elementary reading classroom. (variable units) Prerequisites: ED 326, ED 332

ED 372 Teaching Elementary Art: Expressing the Joy of Pure Consciousness
In this course, students become familiar with the theory, basic concepts, and techniques used to teach elementary school art. Topics include teaching methods and curriculum for art. Materials fee is $15. (variable units) Prerequisite: ED 332

ED 373 Teaching Elementary Music: Enjoying the Flow of Wakefulness
This course presents an introduction to elementary school music methods and materials. Topics include teaching behaviors and strategies for music education, use of contemporary technology in teaching music, evaluation in music education, and adapting music education for students with special needs (the handicapped and the gifted). (1 unit) Prerequisite: ED 332

ED 374 Teaching Elementary Art: Expressing the Joy of Pure Consciousness
In this course, students become familiar with the theory, basic concepts, and techniques used to teach elementary school art. Topics include teaching methods and curriculum for art. Materials fee is $15. (variable units) Prerequisite: FOR 101
ED 376: Methods of Teaching Elementary Physical Education: Understanding the Mechanics of Self-Referral in the Classic Triad of Mind, Body, Spirit
This course introduces teaching methods for elementary physical education. Topics include strategies for teaching physical education in accordance with the stages of children’s motor development, classroom management, lesson planning, and holistic health and fitness. (1 unit) Prerequisite: FOR 101

ED 398 Internship in Teaching and Curriculum: Promoting Peace and Heaven on Earth
This course is an elective for students who wish to have additional practical experience in elementary or secondary education. Faculty members help place students in educational institutions with responsibilities appropriate to their preparation. Students assist or co-teach in classrooms, under the supervision of University faculty. Readings, journal writing, other written exercises, and regular performance feedback help guide and inform their practical teaching experiences. (variable units) Prerequisite: consent of the instructor

ED 407 Overview of American Education: Charting the Rise of Consciousness-Based Education in America
This course provides an introduction to the structure and functioning of American education today. Topics covered include the history of American education, national, state, and local influences on education, legal parameters of education, school finance, careers in education, and directions in educational reform. (2 units) Prerequisite: FOR 101

ED 408 Early Field Experiences in Teaching: Perceiving the Fullness of Life
Early in the undergraduate teacher education program, each candidate for elementary or secondary school teaching licensure enrolls in this course for a two-week full-time field experience in the elementary or secondary school classroom. Students observe the teacher and participate in teaching as appropriate. The student writes a final report relating classroom experience to developing the full potential of K–12 students. (2 units — may be repeated) Prerequisite: FOR 101

ED 409 Reading and Adolescent Literature: Pure Wakefulness as the Ground for Literary Appreciation
This course addresses both the nature of the reading process and the range of literature appropriate for secondary level students (grades 7–12). Topics include a review of literacy goals for secondary education, models of reading comprehension, strategies for teaching reading skills, assessment of reading ability, types of adolescent literature, and recommended reading for different ages and interests. (2 units) (Required for all students planning to teach secondary school English.) Prerequisite: FOR 101

ED 411 Maharishi Vedic Science and Technology in Education
This course explores the fundamental ideas of Maharishi Vedic Science and Technology in Consciousness-Based education curricula. Topics include: the self-interacting dynamics of consciousness, Maharishi’s Apaurusheya Bhashya of Rik Veda, the structure and major themes of the Vedic Literature, Maharishi Vedic Psychology and
Physiology, and research on Consciousness-Based education programs. (4 units)  
Prerequisite: FOR 101

**ED 450 Human Relations in Education: Effective Communication on the Ground of Infinite Correlation**  
This course considers the relationship between the individual and society, and between individual cultures in a pluralistic society. Students study major theories from social psychology, multiethnic and multicultural education, and interpersonal communication. (variable units) Prerequisite: FOR 101

**ED 451 Teaching the Exceptional Child: Promoting Total Development of the Brain in Every Child**  
This course introduces the learning characteristics of gifted and handicapped students, and explores strategies and practices that elementary and secondary school teachers can use for exceptional students in group learning environments. Topics include identifying the exceptional student, assuring due process, creating least restrictive environments, preparing the individual education plan (IEP), and evaluating. (variable units) Prerequisite: ED 320

**ED 480 Methods of Teaching in Secondary School: Creating Courses Which Connect Every Part of Knowledge to the Whole of Knowledge and the Whole to the Self**  
This course builds on the general teaching methods course and requires that students investigate the planning, teaching, and assessment strategies that are appropriate to their intended teaching area. Students spend a good portion of their time observing and assisting in a secondary school classroom. They prepare and teach one or more lessons. Specific topics include national standards, scope and sequence in their subject, clinical interviews of students, main concepts of the discipline, and design of main points and Unified Field Charts. (4 units) Prerequisite: FOR 101

**ED 483 Teaching Elementary Art: Expressing the Joy of Pure Consciousness**  
In this course, students become familiar with the theory, basic concepts, and techniques used to teach elementary school art. Topics include teaching methods and curriculum for art. Materials fee is $15. (1 unit) Prerequisite: ED 332

**ED 484 Teaching Elementary Mathematics: Exploring the Structure of Pure Knowledge**  
This course introduces teaching methods for arithmetic, computation, and basic mathematical concepts. Topics include strategies for teaching mathematics in accordance with the stages of children’s cognitive development and for teaching pre-number and number concepts, place value and numeration, whole numbers, addition, subtraction, multiplication, and division. (variable units) Prerequisites: ED 332, ED 451
ED 485 Teaching Reading and Language Arts: Developing Self-Referral in Teacher and Student
This course is an introduction to methods and materials for teaching reading and language arts in the elementary school classroom. Topics include diagnosis and evaluation of reading skills and comprehension; word attack, vocabulary and comprehension strategies for reading instruction; the reading/writing connection; strategies for developing listening and speaking skills; expository and narrative writing; writing poetry; integrating the language arts throughout the curriculum; analysis of commercial reading education materials; use of technology in teaching reading and language arts; and reading materials and methods for students with special needs. Students will apply what they are learning as they spend part of each day in an elementary reading classroom. (variable units) Prerequisites: ED 332, ED 326

ED 487 Teaching Elementary Science: Discovering the Self as the Basis of All Natural Phenomena
This course prepares the teacher candidate to foster scientific inquiry and problem solving in elementary school children. Topics include scientific concepts, scientific literacy, and science methods and materials in the elementary school. (variable units) Prerequisites: ED 332, ED 326

ED 488 Teaching Elementary Music: Enjoying the Flow of Wakefulness
This course presents an introduction to elementary school music methods and materials. Topics include teaching behaviors and strategies for music education, use of contemporary technology in teaching music, evaluation in music education, and adapting music education for students with special needs (the handicapped and the gifted). (1 unit) Prerequisite: ED 332

ED 489 Teaching Elementary Social Studies: Creating Citizens for the Age of Enlightenment
This course presents an introduction to social studies, including the variables that influence society (geography, religion, ethics, social norms, and folkways) and social studies teaching methods and materials. (variable units) Prerequisites: ED 332, ED 326

ED 490 Student Teaching in Secondary School: Action and Achievement Lead to Fulfillment
Through daily observing, course planning, teaching, and course evaluation, students come to assume the full responsibility of the full-time teacher. Critiques by supervising and cooperating teachers and by the student teacher, weekly seminars, regular observations, and written student analyses of their teaching promote comfortable and efficient growth toward effective teaching, educational evaluation, and school leadership. (variable units — may be repeated) Prerequisite: consent of the department

ED 491 Specialized Student Teaching — Elementary School
This course develops effective teaching skills and curriculum planning for the student’s specific subject matter. During this course, students gain daily experience in the
classroom in their specific subject matter for at least two grade levels in the K–6 range. Students participate in a weekly seminar and observe, teach, and receive critiques by supervising and cooperating teachers. (variable units — may be repeated) Prerequisites: completion of 4 units in a specialized area of elementary school teaching methods and consent of the Department of Education

**ED 494 Student Teaching in the Elementary School: Established in Being, Perform Action That Leads to the Fulfillment of Student and Teacher**
This course develops effective teaching skills through daily observation, planning, teaching, and evaluation in the classroom. Course work includes weekly seminars, regular observations, written and oral analyses of teaching, critiques by supervising and cooperating teachers and by the student teacher. (variable units — may be repeated) Prerequisite: consent of the department

**ED 495 Creating a Digital Teaching Portfolio: Documenting the Growth of Self-Referral Performance in the Life of the Teacher**
This course provides students with the time and supervision necessary to prepare a portfolio of their work. (variable units) Prerequisite: ED 490 or ED 494

**ED 499 Directed Study**
(variable units) Prerequisite: consent of the department and the Academic Standards Committee

**Graduate Courses**

**ED 501 The Transcendental Meditation Program: Developing the Total Potential of the Human Brain**
The Transcendental Meditation technique is a simple, natural, effortless procedure to develop full human potential and culture experiences of higher states of human consciousness. Research indicates that the individual practice of the Transcendental Meditation technique provides a unique state of deep physiological rest that dissolves accumulated stress and tension while increasing intelligence, creativity, happiness, and self-actualization; increasing energy and improving health; and enhancing personal relationships.

This course will cover the nature of the practice of the Transcendental Meditation technique, scientific research, and its applications in individual life and society. Personal instruction in the Transcendental Meditation technique will be included in this course. The laboratory component of this course will include twice-daily practice of the Transcendental Meditation technique and three months of follow-up meetings and lectures.

**ED 507 Overview of American Education: Understanding Consciousness-Based Education as the Fulfillment of the American Educational System**
This course provides an introduction to the structure and functioning of American education today. Topics covered include the history of American education, national,
state, and local influences on education, legal parameters of education, school finance, careers in education, and directions in educational reform. (2 units)

ED 508 Organizing the Digital Teaching Portfolio: Documenting the Growth of an Ideal Educator through Mastery of Ancient and Modern Technologies (1 unit)
In this course students gain a brief introduction to the fundamentals of digital design and information transfer. They create the shell of what will become their digital portfolio and they learn how to upload and download text, pictures, and video files. This course prepares students for the process of gathering artifacts for their portfolio over the rest of the program.

ED 510 Consciousness-Based Education
This course examines the fundamental goals, principles, and practices of Consciousness-Based education as developed by His Holiness Maharishi Mahesh Yogi. It develops students’ abilities in speaking publicly about Consciousness-Based education. Topics include the history of education, educational reform, problems and solutions in contemporary education, scientific research on Maharishi Vedic Science and Technology as applied to education, Dr. Tony Nader’s discovery of Veda in human physiology, six pillars of Vedic technology for reform of education, and documentation of Consciousness-Based education. (2 units)

ED 511 Curriculum and Evaluation: Planning for Achievement and Fulfillment
Students in this course study the fundamental structure of their teaching field as revealed in Unified Field Charts and national standards. They also learn the process of curriculum development called “backward design” and the methods of developing the most common types of assessment. The culminating project is a unit design of a theme from their teaching field, complete with a comprehensive assessment plan. Other topics include: the curriculum rationale, six facets of understanding, classroom testing, curriculum evaluation, interpreting standardized tests, and grading. (4 units)

ED 513 Maharishi Vedic Science and Technology in Education
The primary focus of this course is the emergence of Maharishi’s Absolute Theory of Education from Maharishi Vedic Science and Technology. Topics include: the self-interacting dynamics of consciousness, Maharishi’s Apaurusheya Bhashya of Rik Veda, the disciplines of Vedic Literature and their application to effective K–12 education, and research on Consciousness-Based education programs. (4 units)

ED 515 Learning Strategies: Using One’s Total Brain in Learning
This course focuses on the process of learning. It presents a range of learning strategies that are useful across academic curricula as well as non-academic learning experiences. Strategies explored include mapping, creating a learning context, reviewing, and relating all learning processes to oneself. Principles and practice of these strategies are related to other concepts in the teacher education program — schema, developmental psychology, etc. Students also practice teaching these strategies. (2 units)
ED 520 Understanding Learning and Development in Children: How Pure Intelligence Comes to Know Itself through the Child’s Developing Nervous System
This course studies the implications of theories of human development and learning for education. The first part of the course looks at theories of both cognitive and affective development and deals with topics such as factors influencing development, endpoints of development, and the nature of intelligence. Students will study the work of Piaget, Vygotsky, Erikson, Kohlberg, Gardner, and Maharishi. The second part of the course focuses on both cognitive and behavioral views of learning. Topics include classical and operant conditioning, social learning, information processing, problem solving, creativity, and constructivism. (4 units)

ED 522 Human Relations in Education: Developing the Skill of Ideal Communication on the Ground of Infinite Correlation
This course considers the relationship of the individual and society and of individual cultures within a pluralistic society. Topics include major theories from social psychology, multiethnic and multicultural education, and interpersonal communications skills. (variable units)

ED 526 Teaching Exceptional Children: Promoting Total Brain Functioning in Every Child by Honoring the Diversity That Blossoms within the Unity of Creation
This course investigates the various learning characteristics of gifted and handicapped students and the strategies and practices elementary and secondary school teachers can use to develop the full range of learning abilities of individuals and groups. Topics include identifying the exceptional student, assuring due process, creating least restrictive environments, preparing the individual education plan (IEP), and evaluating. (variable units) Prerequisite: ED 520

ED 527 Enlightened Literature for Children: Identifying Life-Supporting Literature to Prepare Children for the Age of Enlightenment
Students learn to evaluate children’s books and to develop a comprehensive reading program for the elementary school classroom. Topics include criteria of selection, story telling, reading warm-up and follow-up, motivating children to read, and designing a reading program. (2–4 units)

ED 548 The Science and Art of Teaching: Gaining Skill in Action from the Platform of Total Knowledge
This course introduces students to two essential areas of study in classroom teaching, K–12: Maharishi’s Principles of Ideal Teaching, general principles of teaching from contemporary social science, and classroom observation skills. Students prepare and carry out lessons in mini-teaching and often in real classroom situations. (4 units)

ED 549 Mastering Classroom Management: Gaining Leadership in the Classroom through the Authority of the Total Potential of Natural Law
Students learn the basic principles of leadership and classroom management from Maharishi’s Principles of Ideal Teaching and the social science literature. They practice specific time-honored techniques and they practice developing the judgment of a leader
through numerous case studies. Topics include: understanding student needs, motivation, building relationships in the classroom, dealing with minor disruptions and chronic misbehavior, and problem-solving with students.

**ED 552 Fundamental Concepts of the Sciences in the Light of Maharishi Vedic Science**
Students in this course study the fundamental concepts of the sciences, starting with physics and ending in biology. From physics these concepts include force, matter, time, space, light, and the unified field; from chemistry these include chemical reaction, periodic table, chemical bonding, and the quantum mechanics of the atomic structure; from biology these include the structure of the DNA molecule, the properties of life, homeostasis, evolution, and energy flow in ecological systems. All concepts are understood in terms of unifying concepts from the Science of Creative Intelligence and Vedic Science, including the Constitution of the Universe, Veda in human physiology, and the identity of the Unified Field and Consciousness. In the context of these studies, students learn the professional standards of their discipline and prepare a presentation on the course they will teach as a professional.

**ED 554 Teaching Elementary Mathematics: Exploring the Structure of Pure Knowledge in Theory and in Practice**
This course introduces teaching methods for arithmetic, computation, and basic mathematical concepts. Topics include strategies for teaching mathematics in accordance with the stages of children’s cognitive development and for teaching pre-number and number concepts, place value and numeration, whole numbers, addition, subtraction, multiplication, and division. (variable units) Prerequisites: ED 548, ED 526

**ED 555 Advanced Study in Teaching Methods: Locating Total Knowledge in Everything One Teaches**
This course is designed for experienced elementary or secondary school teachers who wish to deepen their knowledge of the teaching methods of their discipline, as well as interdisciplinary teaching methods. Topics of instruction vary according to the student’s subject-area expertise. (variable units — may be repeated) Prerequisite: a teaching certificate or two years’ teaching experience

**ED 556 Methods of Teaching in Secondary School: Creating Courses Which Connect Every Part of Knowledge to the Whole of Knowledge and the Whole to the Self**
This course builds on the general teaching methods course and requires that students investigate the theory behind teaching in their subject. They also study the planning, teaching, and assessment strategies that are appropriate to their intended teaching area. Students spend a good portion of their time observing and assisting in a secondary school classroom. They prepare and teach one or more lessons. Specific topics include national standards, scope and sequence in their subject, student knowledge of their subject, main concepts of the discipline, and design of main points and Unified Field Charts. (4 units) Prerequisite: consent of the department
ED 558 Teaching a Single Subject in the Elementary or Secondary School: Laying the Foundation for Enlightened Leadership
This course introduces the process of curriculum development and the instructional methods appropriate for teaching a single subject in the elementary or secondary school. The course is co-taught by University and school faculty. Students are placed in a classroom where they spend approximately 25 hours over the course of the month. They assist in the classroom, observe methods of instruction, and plan a unit to be taught later during their student teaching. Topics include structure of the discipline, broad ideas of the discipline, national standards in one’s field, instructional strategies special to one’s field, curriculum design, principles of sound assessment, reading across the curriculum, data-based instructional decision making, and research on new trends or methods of instruction. (4 units) Prerequisite: ED 332 The Science and Art of Teaching.

ED 560 Teaching Elementary Science: Discovering the Self as the Basis of All Natural Phenomena
This course provides the teacher with research-based strategies to develop a scientific approach and scientific problem-solving abilities in elementary school children. Topics include novice and expert science concepts, cognitive development, and science methods and materials in the elementary school. (variable units) Prerequisites: ED 548, ED 526

ED 564 Applications of Technology in the Secondary Classroom: Inner and Outer Technologies in Support of the Development of Students’ Full Creative Potential
This course in technology education introduces prospective secondary teachers to the various new technologies for math and science education, including videodisc, computer assisted instructional modules, computer programs for enhanced teacher efficiency, graphing calculators, and a variety of other computer programs for teaching mathematics and science. (4 units)

ED 567 Teaching with HyperStudio: Expressing the Unbounded in Print and Pictures
Hypermedia is becoming an increasingly common form of instruction. The Worldwide Web and many educational CD-ROMs are examples of hypermedia. This course explores the theory and practice of creating materials in this multi-sensory, multiple pathway format. Students will produce an interactive hypermedia project using multimedia authoring software. This project will integrate text, graphics, voice, music, and hyperlinks. (variable units)

ED 568 Student Teaching in the Elementary School: Established in Being, Perform Action That Leads to the Fulfillment of Student and Teacher
In this course, student teachers apply the knowledge they have gained during their course work to the elementary school classroom. Students observe, aid, tutor, and gradually assume the responsibility of a professional teacher. (variable units — may be repeated) Prerequisite: consent of the department
ED 569 Student Teaching in Secondary School: Action and Achievement Lead to Fulfillment
Through daily observing, course planning, teaching, and course evaluation, students come to assume the full responsibility of the full-time teacher. Critiques by supervising and cooperating teachers and by the student teacher, weekly seminars, regular observations, and written student analyses of their teaching promote comfortable and efficient growth toward effective teaching, educational evaluation, and school leadership. (variable units — may be repeated) Prerequisite: consent of the department

ED 570 Advanced Seminar in Educational Issues: Through the Window of Science Is Seen the Dawn of the Age of Enlightenment
During this seminar students gather information and data in order to answer a research question on a basic educational issue. The research question is formulated earlier in their course work. The seminar culminates in the writing of a research paper and the oral presentation of the findings and recommendations to other students, faculty in the Department of Education, and other appropriate faculty. (8 units) Prerequisite: consent of the department

ED 571 Methods of Teaching Elementary Reading and Language Arts: Understanding and Experiencing How the Language Arts Develop Self-Referral in Teacher and Student
This course trains students to evaluate the theory and practice of reading and language arts education in the light of contemporary research. Course topics include all topics of ED 485 with an additional emphasis on the findings of CIERA, the National Research Council, and the National Reading Panel. (variable units) Prerequisites: ED 548, ED 526

ED 573 Teaching Elementary Social Studies: Creating Ideal Citizens of the Age of Enlightenment through Classroom Experiences That Inspire and Enlighten
This course trains future teachers to use the most effective methods and materials to accelerate children’s understanding of their social environment. Topics include national goals of social studies. (4 units)

ED 574 Teaching Elementary Art: Expressing the Joy of Pure Consciousness
In this course, students become familiar with the theory, basic concepts, and techniques used to teach elementary school art. Topics include teaching methods and curriculum for art. Materials fee is $15. (variable units)

ED 575 Teaching Elementary Music: Enjoying the Flow of Wakefulness
This course presents an introduction to elementary school music methods and materials. Topics include teaching behaviors and strategies for music education, use of contemporary technology in teaching music, evaluation in music education, and adapting music education for students with special needs (the handicapped and the gifted). (1 unit)
ED 576 Methods of Teaching Elementary Physical Education: Understanding the Mechanics of Self-Referral in the Classic Triad of Mind, Body, Spirit
This course introduces teaching methods for elementary physical education. Topics include strategies for teaching physical education in accordance with the stages of children’s motor development, classroom management, lesson planning, and holistic health and fitness. (1 unit)

ED 580 Foundations of Teacher and Student Success: Established in Being, Teach
The main purpose of this course is to establish in the weeks and months before school a strong foundation for teachers’ success in their first year of teaching in the U.S. The course is designed as a mentor program, requiring the support of an administrator, an instructional guide, a curriculum guide, and a colleague in the school of similar training and background to the first-year teacher. Topics include: creating life-supporting work conditions, first day and first month planning, classroom management, communicating with students and parents, and creating a professional portfolio from the first year on the job. This course is usually offered through distance learning. (4 units)

ED 582 Action Research for the New Teacher: Understanding and Experience Yield Knowledge
The purpose of this course is to draw students into their professional communities and the literature on teaching in their subject field. Using readings in their teaching field and interaction with peers, students engage in repeated cycles of application and reflection to improve their teaching. Topics include: action research to improve teaching; professional associations in the teaching field; Natural Law-based teaching strategies; and curriculum development. (4 units)

ED 590 Capstone Course in Consciousness-Based Education: Structuring the Steps toward Enlightenment for Teacher and Student
After one or more years teaching in the field, students return to campus for a one-month review of the principles of Consciousness-Based education and a look ahead to the development of higher states of consciousness through teaching. The course integrates lectures by Maharishi with advanced principles of teaching and curriculum development preparing for a lifelong career of enjoyment and fulfillment. The course includes a one-week residence course in the first week in order to fully rejuvenate and inspire the professional teacher. (4 units)

ED 595 Creating a Digital Teaching Portfolio: Documenting the Growth of an Ideal Educator through Reflection on the Three-Fold Nature of Teaching and Learning
This course provides students with the time and supervision necessary to prepare a portfolio of the work they completed while in student teaching. Students learn the basics of hypermedia design (Web design) and create a showcase portfolio presenting their work to potential employers and to the University faculty. The portfolio is then evaluated by a panel of faculty in partial fulfillment of the requirements for a Master of Arts in Teaching. (2–4 units)
ED 596 Practicum in Teaching
This course is an application of the knowledge of teaching gained during the Master of Arts in Teaching program in a full time position with a cooperating school. Students submit regular reports of their progress, as does the cooperating school. The course and the reports are oriented toward the achievement of the Iowa Professional Teaching Standards. (2-10 weeks, 2-10 units)

ED 598 Curricular Practical Training in Mathematics or Science Teaching: Teaching as the Vehicle of Growth toward Enlightenment
Students enroll for this course during their two years of paid curricular practical training in the Master of Arts in Education program. They file regular reports of their progress, participate in an online problem-solving Listserv; and they participate fully in the school’s ongoing faculty development. (4.5 units per semester, repeatable for credit).

ED 599 Directed Study
(variable units) Prerequisite: consent of the department faculty

ED 601 Teaching Elementary School Art — Specialist Training
This course presents an introduction to the elementary school teaching methods and materials for the subject matter specialist in art. It provides opportunities for designing and teaching elementary school units in this field. Topics include unit design, teaching strategies special to elementary art, and assessment in art. (4 units)

ED 647 Using Technology for Learning
More and more schools are investing in technology with the hope of improving student learning. This course investigates the most promising classroom uses of technology and the strategies for applying it effectively. The course is primarily for practicing teachers and helps them better achieve their objectives with the wise use of computer-assisted instruction, Internet projects, productivity tools for teachers, and student multimedia assignments.
DEPARTMENT OF EXERCISE AND SPORT SCIENCE

FACULTY
• Ken Daley, M.Ed., Chair, Associate Professor of Exercise and Sport Science
• Raul Calderon, Ph.D., Assistant Professor of Exercise and Sport Science
• Dan Burks, M.A., Instructor of Exercise and Sport Science

INTRODUCTION

The Department of Exercise and Sport Science is committed to offering a wide range of sport and recreation activities to meet the needs of our diverse international population. The department administers undergraduate recreation courses, intercollegiate and recreational sports clubs, and teaches selected courses in exercise and sport science. Recreation classes serve as a dynamic activity to balance the academic routine of students. Sports clubs and intramural events provide ongoing competition for sports enthusiasts.

The department is very proud to offer a high quality outdoor recreation/adventure program. We offer day-, week-, and month-long courses in experiential outdoor recreation and leadership. We engage in many activities such as windsurfing, whitewater kayaking or canoeing, sea kayaking, flat-water canoeing, rock climbing, swimming, horseback riding, hiking, backpacking, and skiing. We travel to locations throughout the United States. We have also held six-week courses in New Zealand and Australia.

SPECIAL FEATURES

Each fall the department offers its Base Camp, where all freshmen and selected faculty and upperclassmen spend 4 days in a wilderness experience. The students have the opportunity to build friendships for a lifetime as they engage in activities like canoeing, caving, swimming, and mountain biking. The department offers a winter Base Camp for students entering the university during second semester. Activities focus on winter sports like ice-skating, skiing and snow boarding.

DEPARTMENTAL REQUIREMENTS

Daily Activity Graduation Requirement Policies
All undergraduate students are required to engage in regular daily dynamic physical activity as a University graduation requirement. It is expected that students will be physically active for at least four hours each week.
This activity graduation requirement extends to every academic block in which students are registered. This fitness program is an individualized flexible program that is designed and implemented by each student. Participation in this program is a graduation requirement and is monitored with an activity chart. At the end of every academic block, the activity sheet is returned to the office of the Director of the Undergraduate Health and Fitness Program in the Department of Exercise and Sport Science.

To help students develop and implement a well-rounded fitness program, each student is given a health-related fitness assessment at the beginning of every semester. The fitness assessment establishes a reference point that allows the student to monitor fitness changes and progress throughout the year. The faculty in the Department of Exercise and Sport Science are available to assist the students to plan and implement their individualized health and fitness program.

In addition to the regular activity requirement, all students must complete a knowledge-based graduation requirement entitled “FOR 103 Health-Related Fitness.” This course should be completed during the first year.

COURSES

ESS 101 Health and Fitness Practicum: Physical Activity to Promote Longevity and Fitness for Life
In this innovative and unique course, students exercise daily, chart their activities, and report their achievement at the end of each month. Each year every student receives a fitness assessment and a personally tailored workout program. Students are then assessed again at the end of the year. A computerized system helps students track their progress and generates a regimen of exercises. Prerequisite: FOR 101

ESS 103 Base Camp: Creating Harmony within the Diversity of Students, Faculty, and Administration
Students, faculty, and staff go to a wilderness area for a camping trip to help build friendship and understanding between all three groups with the goal of establishing cooperation for future endeavors. Activities include canoeing, biking, and hiking, as well as learning outdoor skills. (1 unit) Prerequisite: FOR 101

ESS 210 Physiology of Fitness
This course presents the fundamentals of anatomy and physiology of exercise, such as how the body responds, adjusts, and adapts to exercise. Students are also introduced to laboratory fitness testing and assessment. (4 units) Prerequisite: FOR 101

ESS 315 Coaching and Teaching of Skills
In this course students learn the principles of skill acquisition and skill analysis. In addition, the course offers prospective coaches or instructors the teaching skills necessary to teach in a variety of sport settings. (4 units) Prerequisite: FOR 101
ESS 320 Practicum
Through daily observations and teaching or administering, students quickly assume the responsibilities of an exercise and sport science professional. Critiques by faculty and students, twice weekly meetings, and regular observations promote growth toward effective teaching and administration practices. (4 units) Prerequisite: ESS 315

ESS 325 Team-Building: Promoting Leadership through Challenging Outdoor Sports
This course teaches the student leadership skills in a variety of adventure sports such as backpacking, canoeing, kayaking, and rock climbing. The course includes field trips to locations in the Midwest. (4 units) Prerequisite: FOR 101

ESS 330 Ecology and Outdoor Adventure
This course explores the diverse ecosystems of North America through firsthand field experiences. Students travel to outstanding wilderness ecosystems and study one or more of the following: mountains, forests, prairies, deserts, rain forests, freshwater lakes and streams, oceans, coastal regions. The unique plants, animals, weather, geology, and history of human occupation are studied in order to gain a holistic understanding of each ecosystem. Examples of study areas: Northern Arizona (Grand Canyon), Rocky Mountains (Colorado, Wyoming), Northwoods (Minnesota, Ontario), and Cape Cod (Massachusetts). (4 units — may be repeated) Prerequisite: permission of instructor

ESS 332 Improvisation Dance/Movement 1: Dancers and Actors Exploring Improvisational Movement as an Expression of Deepest Creative Impulses
By understanding the mechanics of their own creative impulses as they arise from pure consciousness, dancers or actors begin the most profound exploration of movement in the context of themselves, music, other students, and the environment of the theater. (4 units — may be repeated) Prerequisite: FOR 101

ESS 333 Improvisation Dance/Movement 2: Expanding the Experience of Movement Truthful to the Inner Life of Each Student
As an extension of Movement and Improvisation 1, this course extends the understanding of creative truthful movement as spontaneous, natural, arising from pure consciousness, and the source for a further exploration of the principles of space weight, time flow, and other fundamental principles of movement. (4 units) Prerequisites: ESS 332 and permission of the instructor

ESS 334 Performance Laboratory: Cycles of Performance and Critique to Stabilize the Ability to Use Improvisation as a Performance Method, Drawing from the Creative Source of All Performing Arts
The most truthful and most satisfying movement and performance come out of a deep connection to the Self, pure Being. Cycles of performance and critique develop the ability to discriminate between stronger and weaker performances, establish confidence in the many layers of the personality, and strengthen all performance skills. (4 units) Prerequisites: ESS 333, and permission of the instructor
ESS 336 Introduction to Movement Science: Life Moves in Waves of Rest and Activity
This overview course presents the fundamentals of anatomy and physiology of exercise, skill acquisition, skill analysis, and care and treatment of common athletic injuries in light of the intimate dialogue of body to mind. The goal of the course is to understand that as the physiology is nurtured, the mind is stimulated to greater possibilities. Through cycles of rest and activity students comprehend the possibility of perfection in the body-mind continuum. Open to all students. (4 units) Prerequisite: FOR 101

ESS 337 Introduction to Physical Theater: Breathing Life into the Lifeless — Working with Masque and Movement, Tools in Creating Fully Developed Characters for Stage
To understand the silent, unmoving source of movement leads to an understanding of not only the student’s deepest nature, but allows the student to apply that understanding to the creation of characters. In this course, masque building, masque work, and movement exercises help to create fully developed stage personalities. Open to all students. (4 units) Prerequisite: FOR 101

ESS 398 Research
In this course, students enrich their knowledge with practical experience of laboratory research and field-testing techniques of exercise and sport science. (variable units) Prerequisite: consent of the Department of Exercise and Sport Science and the Academic Standards Committee Prerequisite: FOR 101

ESS 498 Internship
This internship offers practical and advanced knowledge and experience in a specific area of Exercise and Sport Science. Students apply classroom knowledge in a professional setting that may be on or off campus. Students gain in-depth experience and submit a report on all their internship activities. (variable units) Prerequisite: consent of the department and the Academic Standards Committee.

ESS 499 Directed Study: Cultivating Higher Potentials of Body and Mind through Exercise and Sport
(variable units) Prerequisite: consent of the department faculty

FOR 103 Health-Related Fitness: Physical Activity to Promote Longevity and Fitness for Life
This course presents the latest knowledge from Western science and the Maharishi Consciousness-Based Health Care program concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. The major focus will be on the details of the ideal routine of sleep, diet, exercise, meaningful activity, recreation and the importance of the regular experience of pure consciousness for optimum health and evolution. This course will combine both lectures and physical activity labs. (2 credit hours) Prerequisite: FOR 101
DEPARTMENT OF LITERATURE AND WRITING

FACULTY

• Terry Fairchild, Ph.D., Chair, Associate Professor of Literature
• James Fairchild, Ph.D., Associate Professor of Literature and Writing
• Dara Llewellyn, Ph.D., Assistant Professor of Literature and Writing
• Nynke Passi, M.A., Assistant Professor of Literature and Writing
• Gerald Geer, A.B., Adjunct Assistant Professor of Writing

INTRODUCTION: A Spiritual Approach

Literature, age after age, recounts the story of life in its innumerable variety. Unlike history or the sciences, literature transcends the formulas and the simple facts — the roughest traces of our common being. Literature is as much concerned with what is possible as what has been. In this sense, literature has resisted time, has come to be cherished like scripture, and has always been spiritual. The study of literature is spiritual because it concerns itself with the great questions of life, history’s most significant moments, and the unlimited potential of the human spirit to aspire and renew itself.

Literary study investigates the essence of what we are as a people through the incandescent lens of language. In form it is the poetic, the dramatic, the eternal tale of our common existence. To study literature is to expand the awareness, to experience imaginatively what life is and what human beings are capable of. Literature chronicles the history of human trials, and more importantly, human triumphs — those victories that transcend our physical, mental, and spiritual limitations. Literature is our window into life’s most compelling truths. It knits the world together into one inseparable family. It is “the news,” reports Ezra Pound, “that stays the news.”

The Literature and Writing course of study at Maharishi University of Management satisfies the general literary goals of any liberal arts program, but it also offers a vision and provides a personal development unequalled in any other literature or writing program. It allows students to develop their own consciousness — “expand the container of knowledge” — as they acquire information, increase their perception, and polish their literary skills. Developing consciousness means directly experiencing and utilizing the very source of knowledge, of all existence, through the practice of the Maharishi Transcendental Meditation® technique. In accessing this eternal and elemental source of life, the student’s awareness and academic competence effortlessly and spontaneously expand along with the overall health and general well-being. Moreover, the literature/writing student at Maharishi University of Management, with no extra effort, begins to contribute to the long-cherished goal of world peace. As the individual’s own coherence increases, the local, national, and world communities also become more coherent because that person, belonging to those larger groups, radiates his/her expanding coherence among the individuals who make up those larger groups. Hence, in reducing
our own stress and increasing our own effectiveness we naturally contribute to world
harmony. In the most practical way imaginable, literature/writing majors at Maharishi
University of Management become creators and maintainers of a peaceful world by:

- Developing world peace through the collective practice of the Transcendental
  Meditation technique and the TM-Sidhi program.
- Learning to value the environment by studying those nature writers sensitive to the
  needs of our world habitat.
- Increasing our creative potential and expanding our individual awareness to discover
  new and powerful solutions to the world’s problems.
- Gaining the support of all-mighty Natural Law that allows one to fulfill our most
  cherished personal and societal goals.
- Learning to operate from the source of Natural Law so as not to make mistakes in life.
- Reducing personal and communal stress — the source of war, suffering, and strife in the
  world.
- Honoring each culture’s unique contributions to the world to enhance global unity.

LITERATURE PROGRAM FEATURES

The Literature Program

- A Bachelor of Arts in Literature engenders a student with the most universal, well-
  rounded education imaginable.
- To study literature is also to study history, religion, art, psychology, sociology, science,
  and politics, for all exist within the domain of the literary text.
- All of the Literature courses at Maharishi University of Management are connected to
  the Unified Field, the most fundamental field of existence.
- Courses with a particularly spiritual turn, including The Bible as Literature, Asian
  Literature, The Bhagavad-Gita and Literature, and The Epic (featuring The
  Ramayana), are regularly offered.
- Courses are also available that emphasize “Consciousness” and Literature, including
  American Transcendentalism, Native American Literature, The Greek Classics.
- A course entitled “Literature and the Environment,” featuring works on literature and
  nature, is available as an elective.
- We study all the works in context of the historical, spiritual, political, and social forces
  that produce them.
- We routinely examine in our literature courses the quantum mechanical nature of
  existence. Students learn to find their ever-expanding Self in all that they read.
- Each course is taught as a historical survey, genre survey, or seminar.
- Courses are taught in European literature, American literature, and the world classics in
  translation.
- Multicultural works and gender-balanced texts are integrated into the curriculum.
- Upon graduation, all Literature/Writing students find that their skills in writing,
reading, analysis, perception, speaking, and the understanding of consciousness have significantly developed.

- A speaking and performance component in every class ensures poise, flow, and coherence in public speaking.

**The Writing Program**

- Today many professions not only appreciate but demand fluency in writing.
- Because writing is invaluable for all majors, any student who desires to communicate effectively, to inform, and to persuade readers through the written word is encouraged to take courses in our writing program.
- The most effective means to develop writing is through a combination of reading good examples of writing and through the applied expression of writing.
- The ideal writing program at this University is 24 units of writing and 24 units of literature.
- Students may complete a minor in writing by taking any 5 upper division writing courses (WTG 200 level or above). To develop their writing skills, students may continue to take a variety of writing courses beyond the 20-unit minor.
- Our 5-block minor focuses on both creative writing (fiction and poetry) and a variety of essay forms (such as the personal essay, travel writing, writers on writing, and photo journalism).
- In our writing program, from day one students develop both the art and craft of writing.
- To develop clarity and grace, students routinely respond to a wonderful selection of literary texts.

**WRITING PROGRAM FEATURES**

- Offers a safe haven for developing writers who learn in a completely supportive environment.
- Teaches writing in a professional, workshop atmosphere.
- Transforms aspiring writers into actual writers.
- Presents a variety of writing opportunities, from the purely creative to media-based to the professional and the pragmatic.
- Embraces techniques, including the Transcendental Meditation and TM-Sidhi programs, that develop the writer holistically.
- Creates writers who are the creators of their own selves as well as the literature they produce.
- Gives writing students copious, friendly feedback that assists them in developing quickly as writers.
- Provides students the opportunity to become active members of a thriving writing community, to read their works in a public forum, and to publish in local journals.
DEPARTMENTAL REQUIREMENTS

Bachelor of Arts Degree in Literature

To graduate with a B.A. in literature, students must successfully complete all general University requirements (See “Graduation Policies and Degree Requirements” under “POLICIES AND PROCEDURES” in the University Catalog) plus take 48 units of literature (LIT) and writing courses (WTG) according to the following distribution:

• 44 units of literature (LIT courses 200 or above)
• 4 units in writing (WTG courses 200 or above)

Students are required to take the following literature courses:
• LIT 350 American Literature I
• LIT 351 American Literature II
• LIT 335 Shakespeare
• The Bhagavad-Gita as Literature and/or The Epic (Ramayana)
• The Classics of Greece and Rome and/or Asian Literature
plus
• Three Historical Surveys (Medieval, Renaissance, 18th Century, Romanticism, Victorian, Modern European Literature)
plus
• One advanced (WTG) writing course
plus
• Other literature courses adding up to 48 units overall
• Exit Paper: In order to demonstrate skills acquired during the literature major, students just prior to graduation will write an 8–10 page analytical “exit paper.” Ideally this paper will be written during a one-block individual study (LIT 497 Senior Thesis) worth 4 units that does not contribute to the required 48 literature/writing units. Students have the option to write this paper during their last literature course or on their own time.

• Internship (LIT 498) in an approved setting counts as one literature elective toward the major. It may be repeated for general graduation requirements but may not be repeated to fulfill the requirements of the literature major.

Bachelor of Arts in Literature with an Emphasis in Writing

To fulfill the requirements for a Bachelor of Arts in Literature with an Emphasis in Writing, a student simply chooses a minimum of any 24 units of upper division writing courses (WTG 200 and above) and the same number of units from a large selection of literature courses (LIT 300 and above). Students must furthermore successfully complete all “general” University requirements for the bachelor’s degree. (Refer to “Degree Requirements” under “Academic Policies.”)

• Exit Paper: Just prior to graduation, students will write an exit paper demonstrating the writing skills they have developed in this program. The paper will be either a critical
paper like the one listed under the requirements for the Bachelor of Arts in Literature, or a creative paper with an analytical component.

The Minor in Literature
To graduate with a minor in literature, students must successfully complete 20 units of literature (LIT) courses 200 or above.

The Minor in Writing
To graduate with a minor in writing, students must successfully complete 20 units of advanced writing (WTG) courses at the 200-level or higher. Writing courses (WTG) are listed under “Course Descriptions” at the end of this section.

COURSES

Literature Courses

LIT 114 Literature as Self-Discovery: Recognizing Self-Identity as the Fundamental Principle in All Forms of Literature
The acts of reading and writing are both examples of Self-discovery. It is common to think of writing as an act of self-expression just as all art forms are self-expressive. But writers also express even more than they realize, and much of what is written consciously or unconsciously conveys something deeper, including the unmanifest, unbounded, unwritten, absolute Self. What is often overlooked, however, is that reading is also a creative act. When we read, we are absorbing much of the consciousness of the author, but we are also altering it in many ways as well. We cannot help but do so. Each reading is subjective. It conforms to our own individual ways of seeing the world. In this sense, the act of reading is the act of finding one’s Self in everything we read. Therefore, this course also functions as Self-discovery because it is our design to locate the absolute, unchanging Self in the midst of the ever-changing diversity of the literary text. In this course we will sample all of the literary genres: the novel (excerpts), the short story, the literary essay, the lyric poem, the film, and a Shakespearean play. We will learn some literary terms, do some creative writing, and discover some strategies for reading and writing. (2 units) (Distribution Area: Arts) Prerequisite: FOR 101

LIT 205 Elements of Fiction: Silence and Dynamism as the Primary Forces of Narrative Literature
In this course students study the structure of the narrative by examining a number of short stories and a novel. Students learn literary terminology, the fundamental elements of fiction, and the art of critical analysis. This course is essential for helping students develop the literary essay, the backbone of writing in the major. (4 units) Prerequisite: FOR 101
LIT 206 Elements of Literature: Exploring the Full Range of Outer and Inner Life in Poetry, Drama, and the Literary Essay
This course focuses on the various genres of literature and the role of consciousness in interpreting literature. Students build on their knowledge of literary analysis from LIT 205 and add explication to their writing skills. The Elements of Literature course presents the department’s specialty: the unification of various literary approaches and trends. Students read about contemporary insights into the study of literature that support this direction. (4 units) Prerequisite: LIT 205

LIT 207 The Bhagavad-Gita: The Essence of Veda — Studied as the “Complete Guide to Practical Life,” from Ignorance to Enlightenment
This course will look at the Bhagavad-Gita not only for its insight and inspiration but also for the beauty of its form and language. The primary text of this course will be Maharishi Mahesh Yogi on the Bhagavad-Gita: A New Translation and Commentary Chapters 1-6. We will also read the Gita’s last 12 chapters in another translation, a condensed Mahabharata, and The Legend of Bagger Vance, a novel based on the Bhagavad-Gita. We will also look briefly at works by other writers such as Emerson, Thoreau, and T.S. Eliot who have been inspired by the Gita. (4 units) Prerequisite: FOR 101

LIT 265 (FA 227) Evolution of Film: From the Lumiere Brothers to Kurosawa — Honoring the Tradition of Film Art
This film survey traces the evolution of primarily American and European cinema from the early days of Griffith and Eisenstein through the twentieth and into the twenty-first century. It includes examples of history-shaping movements such as Soviet formalism, German expressionism, French realism, Italian neo-realism, film noir, surrealism, and nouvelle vague. As in LIT 363, we will watch a selection of some of the finest “world masterpieces on film.” ($15 lab fee) [Same as FA 227] (4 units) Prerequisite: FOR 101

LIT 302 The Epic: Valmiki’s Ramayana as the Ultimate Epic Narrative — The Hero Conquering Ignorance and Realizing the Self
An epic is a long narrative in elevated style about characters of high position who perform extraordinary actions. From the great world epics, students study principles of Maharishi Vedic Science to illuminate the subtleties of language and thought. The primary text of this course is the Ramayana. Other selections may include parts of the Bible and other scriptures, Homer’s Odyssey, Dante’s Divine Comedy, and Goethe’s Faust. (4 units) Prerequisite: FOR 101

Lit 305 Native American Literature
Modern Native Americans have rediscovered their spiritual heritage through a reclaiming of ancient tribal customs. In this course we will track their spiritual transformation in such works as Leslie Marmon Silko’s Ceremony, about the healing and new meaning that comes to the hero’s life. In Frank Waters’s The Man Who Killed the Deer, Martiniano has at a young age lost his spiritual bearings but regains them through a series of profound insights. Black Elk Speaks is a Native American spiritual–autobiography; at its center is Black Elk’s cosmic vision of America’s destiny. These and other works, chronicle what
is both profound and tragic in the life of America’s indigenous peoples. Prerequisite: FOR 101

LIT 325 Classics of Greece and Rome: The Ancient and Eternal Texts of Southern Europe, the Spiritual and Philosophical Sources of the Western Literary Tradition
The literature of ancient Greece and Rome is the source of the Western literary tradition. The Greeks in particular recognized the value of literature as an expression of society’s shared ideals and as a means of developing social unity and harmony. Works studied may include Homer’s Iliad and Odyssey, and Virgil’s Aeneid, Greek lyric poetry, plus selections from Socrates, Plato, Aristotle, Marcus Aurelius, Plotinus, and Heraclitus. (4 units) Prerequisite: FOR 101

LIT 328 The Bible as Literature: The Divine as the Source, Course, and Goal of All Existence
For the past 2,000 years the most influential work of literature in the Judeo-Christian World has been and continues to be the Holy Bible: The Old Testament (Torah) — the story of the Israelites — and the New Testament — the story of Jesus of Nazareth. The Bible is generally perceived as a theological work, but it is also a collection of wonderful stories, written in a host of different literary styles and genres. The Holy Bible also symbolically, metaphorically, mythically, and philosophically saturates the works that make up the Western literary canon. Biblical characters such as Moses, John the Baptist, and Jesus Christ parallel such Vedic figures as Arjuna, Krishna, and Rama, just as Greek literary figures (Achilles, Odysseus, and Hercules) were seen by Christians as parallels to characters in the Bible. In this course we will read stories from the Old and New Testaments as well as works of Western literature, such as Milton’s Paradise Lost, T.S. Eliot’s “The Journey of the Magi” and Hemingway’s The Old Man and the Sea, that have in one way or another been shaped by the Bible. Prerequisite: FOR 101

LIT 330 Medieval Literature: From Beowulf to Malory — The Unceasing Pursuit of Self-Knowledge
This course opens with the heroic ideals of the Anglo-Saxons, runs through the birth and popularization of courtly love, and ends at the doorstep of the European Renaissance. Intrinsically involved with the quest motif, this course charts the pilgrimages in Chaucer’s Canterbury Tales, the adventures of Beowulf, Sir Gawain, and the Arthurian knights (especially those concerned with the quest for the Holy Grail), and Dante’s emergence from the inferno into paradise in the Divine Comedy. (4 units) Prerequisite: FOR 101

LIT 335 Shakespeare’s Festival of Comedy: The Twin Themes of Shakespeare’s Comic Vision — The Healing Power of Love and the World Upheld by a Divine Order
Comedy is a discovery of perfection, of harmony, of one’s Self, of an underlying spiritual existence. It is the triumph over adversity, fear, and suffering. It is the celebration of life eternal. In this course we will examine the nature of comedy and many of Shakespeare’s favorite themes such as love, order, immortality, and right action. Among the plays we will read are Taming of the Shrew, Merchant of Venice, A Midsummer Night’s Dream, As
You Like It, Much Ado About Nothing, Twelfth Night, and The Tempest. (4 units)
Prerequisite: FOR 101

The Renaissance was the re-emergence of dynamic social and intellectual activity in the Western world. It marked one of the most vibrant literary, dramatic, and poetic periods in history. Its writers searched for fundamental principles and orderly poetic structures in accord with Natural Law to assist in the full development of human life. Beginning with Petrarch, this course examines some of the greatest Renaissance writers of the sixteenth and early seventeenth centuries: Wyatt, Spenser, Sidney, Donne, Traherne, Herbert, Vaughn, Marvell, and Milton. Also included are readings from some of the major Renaissance philosophers, courtiers, and scientists. (4 units) Prerequisite: FOR 101

LIT 341 Eighteenth-Century Literature: The Augustan Age of Pope, Swift, and Dryden — Aspiring to a Life in Perfect Harmony and Balance
This course covers the literature of the Augustan Age, the Restoration, and the Age of Johnson, and considers the period’s emphasis on feelings and rational thought seen in the novel and in the intellectual tenor of the time. Writers include Dryden, Pope, Swift, Defoe, Richardson, Fielding, Burney, Samuel Johnson, and Jane Austen. (4 units)
Prerequisite: FOR 101

LIT 342 The Eighteenth-Century Novel: Narrative Fiction, the Dominant Literary Form for Two Centuries — From Defoe to Austen
Like the Renaissance writers before them, eighteenth-century sages saw the spiritual power of nature residing in an orderly universe. They sought to tap that power through their attempts to write about it. The novel, the ultimate fictional statement about universal order, emerged from the diverse social, economic, and political forces of the eighteenth century. This course examines the rise of the novel through three different activities: (1) reading novels from Defoe to Austen, (2) studying the cultural milieu of the eighteenth century, and (3) formulating a theory of the novel and its applications. (4 units)
Prerequisite: FOR 101

LIT 344 Romantic Literature: The Transcendental Scope of Vedic India Finding Its Path to Europe — The Visionary Poetry of Blake, Wordsworth, Coleridge, Shelley, and Keats
This course examines the nineteenth-century Romantic Movement and its escape from the limitations of eighteenth-century rationalism through an emphasis on the divine creative power of the imagination, an exalted perception of poetry and the poet, a sympathy for social renewal, a distrust of industrialization and urbanization, and a rediscovery of the transcendent. Writers include Blake, Wordsworth, Coleridge, Keats, Percy and Mary Shelley, and Byron. (4 units) Prerequisite: FOR 101
LIT 347 Victorian Literature: The Attempt to Purify Social Consciousness, Beginning with Romantic Idealism — Tennyson, Eliot, and Thackeray
Victorian literary style reflects a period of transition from the Romantic to the Modern through a blending of profound subjective experience with an awakened consciousness of rapid social change. We will read works by Charlotte Bronte, Carlyle, Tennyson, Arnold, Dickens, George Eliot, the Brownings, Hopkins, and others. (4 units) Prerequisite: FOR 101

LIT 348 Twentieth-Century European Literature: Turning Away from the Realists’ Superficial Materialism, Finding Solace in the Far East’s Transcendent Wholeness — Yeats, Joyce, Woolf, and Lawrence
Exploring the previously uncharted dimensions of inner life, modern European writers in all genres developed new literary techniques to express the deeper realities of consciousness at the basis of thought and human behavior. Combating the forces of urbanization, isolation, industrialization, and the decline of religion, such modern novelists as Forster, Woolf, Lawrence, and Joyce, and such poets as the French Symbolists, Yeats, Eliot, Thomas, and Auden, took refuge in a transcendental vision of life. (4 units) Prerequisite: FOR 101

LIT 350 American Transcendentalism: Self-Determinism and Self-Actualization — The Self as the Primary Theme in Emerson, Thoreau, Whitman, and Dickinson
Heeding the call of Ralph Waldo Emerson to create a truly American literature, American writers explored literary and cultural themes that have originated since Columbus first set foot on this continent: the American Eden, the ideal society, the perfectibility of humanity, Self-reliance, and the individual search for Self. Writers we will consider include Poe, Hawthorne, Melville, Emerson, Thoreau, Whitman, and Dickinson. (4 units) Prerequisite: Prerequisite: FOR 101

LIT 351 American Modernism: Transporting Eastern Transcendentalism to the Contemporary World — Eliot, Stevens, Fitzgerald, Hemingway, and Faulkner
Reacting to the prosaic objectivism of the realist movement, the decline of Western spirituality, and the moral excess of the industrial revolution and European imperialism, a new movement in the arts called Modernism attempted to take the individual back to the spiritual source of the Transcendentalists and its Oriental transcendental roots. Leaders in this movement included Fitzgerald, Hemingway, Faulkner, Steinbeck, and Cather (in fiction), and Frost, Eliot, Williams, Stevens, Moore, and Hughes (in poetry). (4 units) Prerequisite: FOR 101

LIT 355 Asian Literature: The Spiritual Literature of the Far East, from the Tao of Lao Tzu Forward
In this course, students widen their understanding of the streams of creative expression beyond what has been produced in Western cultures. Emphasis will be on those writers and those texts that possess a good understanding of the work of spirituality. Works to be explored may include Lao Tzu’s Tao de Ching, the writings of Chuang Tze, the Confucian Odes, T’ang poetry, the poetry of Kabir and Tagore, Rumi, and Hafiz, and the fiction of Mishima, Kawabata, and Narayan. (4 units) Prerequisite: FOR 101
LIT 356 Contemporary Fiction
Contemporary fiction writers are the classics of tomorrow. In these days of multimedia, “fiction” could include films, videos, graphic novels, collages, and other visual media containing a fictional story line. In this course we will read two contemporary novels by authors such as Barbara Kingsolver, Leslie Marmon Silko, R.K. Narayan, Nick Hornby, and Kate Atkinson. We will also read a number of short stories by writers like T.C. Boyle, Alice Munro, and George Saunders and watch recent films of literary quality. Students will write one essay on any author or filmmaker studied in this class, prepare an oral report, including a visual such as a poster or PowerPoint presentation, and submit a creative work. This could be a short story or something visual with a fictional narrative such as a video, a short animation, graphic short story, etc. Students may include a Maharishi Vedic Science component in their analytical essay or create a Main Points Chart to accompany their oral presentation or final project.

LIT 357 The Hero in Literature
This course will explore the idea of the hero from antiquity to the present. The hero is a larger than life character whose actions affect the fate of a large community for good, or if a tragic hero, for ill. The hero’s behavior (see Arjuna for example) is a model for the ordinary individual. One of the great debates is whether the hero can even exit in the modern world. Among the texts and themes we will follow are: The Odyssey: The Classical Hero, Beowulf: The Germanic Hero, Gawain and the Green Knight: The Medieval Hero, Siddhartha: The Spiritual Hero, and The Bean Trees: The Feminine Hero.

LIT 359 The Short Story
A short story contains all the elements of the novel in micro form and because it is so compact is an ideal arena for studying literature. In this course we will study some of the world’s greatest short story writers beginning with Romantics Washington Irving, Edgar Allan Poe, and Nathaniel Hawthorne, then moving to later, more realistic writers such Guy de Maupassant, Anton Chekhov, Sarah Orne Jewett, and Henry James. Afterward, we will read works by such modernist writers as James Joyce, D.H. Lawrence, E.M. Forster, William Faulkner, Ernest Hemingway, and Flannery O’Connor, finishing up with contemporary writers including Alice Munro, John Updike, and Leslie Marmon Silko. Students will write a short analytical essay on one of the writers studied in the course and will write a short story as the final project. Students may include a Maharishi Vedic Science component in their analytical essay or create a Main Points Chart to accompany their final project.
LIT 360 Poetry: From Speech to Silence — Exploring the Subtleties of Language in Form and Content
This course focuses on contemporary poetry with the aim of awakening students’ awareness to the stylistic techniques that express different visions of wholeness. Poets to be read may include Theodore Roethke, Denise Levertov, James Wright, Gary Snyder, Robert Bly, Richard Wilbur, Elizabeth Bishop, A.R. Ammons, Galway Kinnell, W.S. Merwin, and Jory Graham. (4 units) Prerequisite: FOR 101

LIT 361 The Novel: The Flow of Consciousness in Form and Content — The Interaction of Action and Character, Form, and Content in Novelists from Cervantes to Toni Morrison
The novel in the last two centuries has become the literary form of choice. It reigns supreme in conveying the depth, experience, and great complexity of character. Born in the eighteenth century when long narratives — including epics, fables, romances, and picaresque tales — were losing their vitality, the novel became literature’s torch bearer: the primary literary mode for depicting life. This course examines the history, techniques, and forms of the novel, from social realism to meta-fiction, and may include novels from any given period from the eighteenth century onward. (4 units) Prerequisite: FOR 101

LIT 363 (FA 226) The Art of Film: The Development of the Visual Image from a Simple, Realistic Reproduction to a Snapshot of the Soul
This course emphasizes film technique, including the use of lighting, camera angles, and mise en scene. It takes the student out of the realm of the Saturday night “movie” and into the world of film as a major art form. Our primary texts in this course will be the films themselves, including the masterworks of some of the world’s finest directors. Course requirements include the writing of film reviews and the analysis of a key scene from a film we will have viewed. ($15 lab fee) [Same as FA 226] (4 units) Prerequisite: FOR 101

LIT 364 The Science Fiction Film
The Science Fiction Film introduces students to some of the best science fiction films ever made. It will be part historical, beginning with Frankenstein from the 1930s and including films on up to the present. Part thematic, as we look into some of the broad sci-fi themes, such as what it is to be human. And part technical: we’ll analyze what makes a good sci-fi film and write a film review of a sci-fi film not shown in class. Some of the sub genres include space operas, alien films, B movies, visionary films, cautionary films, and humor. Students will write a scene for a sci-fi film and will give an oral presentation on a science-fiction film and show a clip. We will watch such films as Frankenstein, The Day the Earth Stood Still, On the Beach, 2001: A Space Odyssey, Soylent Green, Star Wars, Close Encounters of the Third Kind, E.T., Starman, Tron, Sleeper, Matrix, and Minority Report. Plus, we will watch clips from a number of other fine sci-fi films, such as Metropolis, Blade Runner, and Repo Man. Prerequisite: FOR 101
LIT 366 The Peace Film: The Imagery of World Peace in Great Films and Enlightened Filmmakers
The Peace Film course explores the many forms of peace contemplated throughout history and depicted in the modern film. Its foundation and inspiration is Maharishi’s vision of world peace that has led to the Peace Government and the establishment of Maharishi Peace Palaces. In this course we will watch 11 films, including such classics as *Yellow Submarine*, *Grand Illusion*, and *The Magic Flute* as well as more recent efforts. Students will analyze films to see how peace is perceived and visualized in the international cinema community. Besides the films themselves, the primary text for the course is Robert Oates’s *Permanent Peace*, which examines how peace can be achieved individually and globally. (4 units) Prerequisite: FOR 101

LIT 367 Modern European Drama: From Realism to Expressionism — Modern, Individualized Forms and Ancient, Transcendental Ideals
Led by such dramatic innovators as Ibsen, Strindberg, Chekhov, Shaw, Pirandello, and Brecht, drama began to emerge from a century of mediocrity. In the late nineteenth century these dramatists pioneered a dramatic revolution that expressed itself in such forms as realism, naturalism, impressionism, expressionism, surrealism, and the theater of the absurd. All of these figures and the movements they spawned will be examined in this course along with the work of other influential dramatists such as Eliot, Yeats, and Shaffer. (4 units) Prerequisite: FOR 101

LIT 368 American Drama: Dramatizing the Growth of an American Consciousness — O’Neill, Williams, and Miller
Beginning with the Provincetown Players and the Little Theater movement of the twenties, this course explores the drama from Eugene O’Neill — America’s foremost dramatist — through postmodernism and contemporary drama. Among the playwrights we will read are Tennessee Williams, Arthur Miller, Glaspell, Hellman, Henley, Kopit, Mamet, and Albee. (4 units) Prerequisite: FOR 101

LIT 369 Comparative Drama: Translating Greek Spiritual Drama to the Twentieth-Century Stage — from Aeschylus to Tennessee Williams
All Western drama begins with the Greeks, specifically the four titans of Athens’ Golden Age: Aeschylus, Sophocles, Euripides, and Aristophanes. In the festivals to Dionysus these four dramatists developed the theatrical concepts of Tragedy and Comedy and helped shape our present view of humanity. In America, some 24 centuries later, Eugene O’Neill gave shape to the modern theater. Much of what O’Neill created was strongly influenced by the Greeks. The American drama that followed O’Neill, Tennessee Williams, Arthur Miller, Beth Henley and others, labored directly under O’Neill’s influence and indirectly under that of the Greek masters. (4 units) Prerequisite: FOR 101

LIT 370 Literature and the Environment: Re-Enlivening Natural Law in Collective Consciousness — from Thoreau to Barbara Kingsolver
Nature and the environment has become the most celebrated cause of the last few decades, giving rise to a literature of its own. In this course we will begin first with Maharishi’s vision of Nature and Natural Law, then read some traditional naturalists such
as Emerson and Thoreau, and finally move to a variety of modern environmentalists. Our primary text will be the *Norton Book of Nature Writing*. In our reading we will study the philosophical, historical, and cultural approaches to the environment that America has inherited. Students will also read an extra text on nature to present to the class and keep a nature journal to discover what Mitchell Thomashow calls our “ecological identity.” (4 units) Prerequisite: FOR 101

**LIT 372 Media and Literature**
In the age we live in, the media constructs and reconstructs the world we know. It is so pervasive that virtually no one on this planet is free from its influence, be it good or bad. At the basis of media is language, the first level of communication. Language forms itself into texts — written, visual, and audio texts — and texts are the interest of literature. In this course we will read a variety of texts that deal directly and indirectly with media as we explore its severe limitations as well as its possibilities to help bring about a worldwide transformation. One literary figure commenting on the relationship between literature and the media said, “Literature is news that stays news.” — Ezra Pound
Prerequisite: FOR 101

**LIT 379 History of English Language**
The History of the English Language is an overview of the history of England emphasizing the rise and development of the most universally spoken language of modern times. The course begins in the pre-English period of the Celts and the invasion of the Romans. Of primary importance in the course are the two Scandinavian invasions in the 5th and 9th centuries and the Norman Conquest in 1066, the most important date in English history. The course tracks the historical and linguistic influences through Shakespeare’s England and on into modern times. The course is primarily a self-study course aimed at satisfying requirements for teaching secondary English. Prerequisite: FOR 101

**LIT 380 Seminar on Special Topics**
Periodically, seminars on special topics are offered by visiting professors or by resident faculty. (2–4 units — may be repeated) Prerequisite: FOR 101

**LIT 497 Senior Thesis: Demonstrating Skill in Action**
The final stroke for the student is to demonstrate those skills that define the accomplished literature major. These skills are expressed in an 8–10 page analytical paper on a literary figure or topic of the student’s choice. This paper will contain the following: literary criticism, Maharishi Vedic Science, literary research, documentation, literary terminology, historical and/or biographical content. This course is optional but it is the ideal way to complete the required exit paper under a one-to-one guidance by a member of the literature faculty. This course is worth 4 units of general University credit but does not fulfill literature/writing requirements. It is graded pass/fail. Prerequisite: consent of instructor
**LIT 498 Internship in Literature**
This course is designed for the practical application of the literary skills — writing, speaking, research, analysis, and synthesis — you have been acquiring in the major. Advanced students find a work situation with community professionals to acquire greater applied knowledge in their field of interest. A defined project is set up and evaluated by both a workplace supervisor and a faculty advisor. (4–12 units) Prerequisite: consent of the department faculty
NOTE: The purpose of this course is as an addition to the requirements of the major; therefore, the units from this course cannot be included as part of the course work required for the major.

**LIT 499 Directed Study**
(variable units) Prerequisite: consent of department faculty

**Writing Courses**

**WTG 120 High Intermediate English for Academic Purposes**
This course is designed for new, international, non-native speakers of English intending to study at an American college or university. Emphasis will be on helping students to understand spoken English delivered at a normal rate in an academic environment. Students will listen to recordings of on-campus conversations, short classroom lectures, and radio and television interviews. Attention will also be given to understanding and using common idiomatic expressions, vocabulary expansion, and grammatical accuracy to develop conversational skills. Students will learn about cultural assimilation principles and of ways to handle culture shock and other difficulties they may encounter. 4 units. Pre-requisite: 5 IELTS or 500 TOEFL.

**WTG 130 Advanced English for Academic Purposes I**
This course will focus on preparing students for academic success in an English-speaking environment. They will be taught how to become good, independent learners of English, making use of freely available language tools such as the Internet, chat rooms, etc. They will also develop study skills such as note-taking strategies, summarizing main points from aural and written texts, and reading skills, and will thereby further improve their use of English. Additionally, preparation for academic writing will provide students a better understanding of American academic standards through classroom discussions, on-campus activities, and assigned reading and writing tasks. Students will also practice pronunciation improvement exercises. 4 units.

**WTG 136 Advanced English for Academic Purposes II**
This course is for college-bound students who need further development of their writing skills in English. Using a process approach, students will practice prewriting, drafting, revising and editing, and will learn to use and provide peer and teacher feedback. Grammar and vocabulary will be improved as needed, and attention will also be given to sharpening listening skills through a variety of recorded talks, interviews, broadcasts, and
live discussions or presentations at the local library, etc. Pronunciation exercises will continue. 2–4 units. Prerequisite: FOR 101

**WTG 190 Composition for Non-Native Speakers**
Because English has undergone an interesting evolution from an inflected to a word order language, because it has such an influx of words from Germanic, Latin, and French sources that has swelled its vocabulary, and because of its sometimes random spelling and usage rules, it can be a very daunting course of studies for non-native speakers and writers. When such writers are placed in courses with students born to the language, they often find it difficult to progress at the same pace; moreover, they may need more concentration in other areas — preposition use for example — that they may not get in WTG 191 or WTG 192. With this in mind, we have created a course tailor-made to give the non-native writer the best introduction to academic writing strategies found in an English speaking curriculum. Prerequisite: FOR 101

**WTG 191 College Composition 1: Clear and Graceful Prose — Coherent Minds**
Expressing Themselves through Traditional Writing Forms
Students in Composition 1 begin to refine their thinking, writing, and grammatical skills founded on their experiences of Being. They integrate two fundamental characteristics of writing: the ongoing process of Self-discovery, and the creation of a finished work. They develop greater facilities with the writing process while strengthening foundational skills. Students read and discuss narrative models to locate the intimate connections between reading and writing. (4 units) Prerequisite: FOR 101

**WTG 192 College Composition 2: Exploring Academic Writing — Knowledge as the Basis of Successful Communication and Self-Expression**
Composition 2 develops the student’s ability to use language for a variety of purposes, subjects, and audiences. It focuses on both exposition and persuasion to strengthen those skills that will assist the student in succeeding academically. In this course we read and discuss a range of prose models that reflect the diversity of thinking and writing across the disciplines. (4 units) Prerequisite: WTG 191 or appropriate assessment

**WTG 201 The Poetry of Transcendence: Exploring the Supreme Reality in the Crown Jewels of World Poetry**
Poetry does the impossible. It allows us to say what cannot be said, to feel what cannot be felt. It can do this because its reach is beyond boundaries. All poetry is transcendental to one degree or another, but the best draws upon Transcendental Consciousness in both form and meaning. In this course we will sample some of the greatest spiritual poetry ever written to use as models in writing our own transcendent poetry. (4 units) Prerequisite: WTG 192 or consent of instructor

**WTG 202 Fiction Writing 1: Emulating Nature’s Own Creative Process — Creating, Developing, Structuring, and Refining Works of Short Narrative Fiction**
Fiction writing is among the most satisfying forms of artistic and personal expression. A fiction writer writes from the heart as well as the mind, but good fiction is much more than “disguised autobiography.” To excel at this craft, students need to learn the arts of
creating plot and character, fashion an appropriate point-of-view, and control style and tone. For inspiration and guidance we will read some of the world’s finest writers of fiction. (4 units) Prerequisite: WTG 192 or consent of instructor

**WTG 210 Poetry Writing: Tracking the Path of Transcending — Expressing the Subtletest Fluctuations of Heart and Mind**

Students in this course read and study model poems to learn the technical building blocks of poetry: imagery, sound effects, rhyme, rhythm, and form. The class members then write their own poems in either free verse or such traditional forms as the sonnet, blank verse, ballad, and villanelle. (4 units) Prerequisite: WTG 192 or consent of instructor

**WTG 301 Nonfiction Workshop 1: From a Single Form — The Literary Essay — Arise Infinite Possibilities of Form and Content**

**WTG 302 Nonfiction Workshop 2**

Creative writing is often mistakenly associated solely with fiction and poetry, but some of the best creative writing is found in nonfiction. Whatever writers put their attention on is filled with their own originality. In these courses, students read beautiful and moving selections of nonfiction prose and examine them for their grace, clarity, and effectiveness. Students then write their own nonfiction projects that could include essays, interviews, reviews, and other forms. (4 units each) Prerequisite for each: Prerequisite: FOR 101

**WTG 312 The Persuasive Essay: Balancing Logical Reasoning and Fullness of Emotion to Move Our Audience**

Among the most useful forms of writing is the persuasive essay. To write so convincingly and with such authority that your reader can’t help but respond favorably to your viewpoint is eminently valuable and satisfying. The hallmark of the persuasive essay is impeccable logic and sound reasoning. In this course, students examine classical and contemporary arguments as models for their own persuasive essays. Topics include inductive and deductive logic, audience consideration, the evaluation of assumptions, counterarguments, fallacious reasoning, and the role of emotions in persuasion. (4 units) Prerequisite: Prerequisite: FOR 101

**WTG 313 Writing and Reading the Short Story: Exploring the Dynamics between Wholeness and Point**

Edgar Allen Poe once stated that everything in a short story works toward a “single effect.” Economy and precision of language make the short story the perfect narrative form. In this course we will read and study intriguing stories such as Gabriel Garcia Marquez’s “The Very Old Man with Enormous Wings” and Eudora Welty's “Why I Live at the P.O.” as models for short fiction we will write. We will also look closely at elements of fiction: character, structure, point of view, imagery, and figurative language as building blocks for our own stories. Students will write three short stories and workshop those stories in class. (4 units) Prerequisite: WTG 192 or consent of instructor
WTG 314 Fiction Writing 2: The Divine at Every Point
This course advances techniques learned in Fiction Writing 1. See WTG 202 for details.
(4 units) Prerequisite for each: WTG 192 or consent of instructor

WTG 315 Writing Literary Nonfiction: Expressing the Truth that Transcends Facts with the Power, Grace, and Insight of Fiction
During the second half of the twentieth century, creative nonfiction — called “the new literature” — has steadily grown in popularity. Reading such writers as Tom Wolfe, Peter Mathiessen, and John McPhee, students discover the potential of nonfiction to elicit an aesthetic response equal to that of the novel. In this course, students learn to combine techniques of journalism and fiction in writing their own creative nonfiction. (4 units) Prerequisite: Prerequisite: FOR 101

WTG 320 The Personal Essay: Examining Experience from One’s Own Self-Referral Perspective — The Memoir and Other Forms
Students read and discuss a range of essayists from earlier traditions to such contemporary essayists as David Sedaris or Vowell. Writing in this form, each student develops his or her personal voice. Students also discover the power of short prose to transform topics of individual concern into expanded visions of wholeness. (4 units) Prerequisite: WTG 192 or consent of instructor

WTG 322 Writing the Personal Memoir: Knowing the Self
During this course, students explore various forms of memoir: childhood memoir, graphic memoir (memoir in cartoon form or illustrated memoir), travel or journey memoir, memoirs of people from other cultures, eyewitness memoir, mosaic memoir, etc. Students read examples by an international selection of famous authors such as Frank McCourt, Janet Frame, Azar Nafisi, Annie Dillard, Helen Nearing and Elizabeth Gilbert, and also work by lesser known authors such as Mark Spragg, Yang Erche Namu, and Etty Hillesum. Students also create their own portfolios using techniques from fiction and poetry to create story and to explore objective and subjective life experience in depth. Ultimately, students learn to stand back and experience their life stories twice, "in the moment and in retrospection," as Anais Nin said. In this way, students come to more deeply know their own Self on every level. (4 units) Prerequisite: WTG 192 or consent of instructor

WTG 323 Memoir of Transcendence: Knowing the Self
During this course, students explore memoir with a focus on the theme of transcendence — spiritual quest, transcendental moments, stories about overcoming great obstacles and achieving great things for mankind, and stories of diving within to explore the uncharted territories of consciousness within. These may be childhood memoirs, graphic memoirs (memoir in cartoon form or illustrated memoir), travel or journey memoirs, memoirs of people from other cultures, eyewitness memoirs, mosaic memoirs, etc. Students read examples by an international selection of both famous and lesser-known authors such as Annie Dillard, Helen Nearing, Elizabeth Gilbert, Henry David Thoreau, Greg Mortenson, Ann Patchett, Azar Nafisi, Mark Spragg, Yang Erche Namu, and Etty Hillesum. Students also create their own portfolios of transcendental memoir using techniques from fiction
and poetry to create story and to explore objective and subjective life experience in depth. Ultimately, students learn to stand back and experience their transcendental life stories and their own spiritual quest twice, "in the moment and in retrospection," as Anais Nin said. In this way, students come to more deeply know their own Self on every level. (4 units) Prerequisite: WTG 192 or consent of instructor.

**WTG 332 Prose Style: Conveying Universal Ideas through a Highly Personalized and Carefully Wrought Voice**

Students acquaint themselves with a wide range of writing styles as they investigate their own style of writing. Examining the works of various authors, students fine-tune their understanding of the mechanics of English expression and develop their ability to use sentence structure, diction, and punctuation as the sophisticated tools they have the potential to be. (4 units) Prerequisite: Prerequisite: FOR 101

**WTG 340 Writers on Writing: Learning from the Great Tradition of Literary Masters — The Nature and Craft of Writing**

The nonfiction writing projects in this course are designed to help students see themselves as legitimate writers. Students examine what celebrated writers, from journalists to novelists, from children’s authors to essayists, have said about their profession. Their insights into the writing craft provide both inspiration and direction. Their explanation of technical matters are then put into practice in the students’ own work. (4 units) Prerequisite: Prerequisite: FOR 101

**WTG 342 Writing for Young People: Writing Stories to Awaken a Child’s Sense of Meaning and Wonder**

Writing for the young can be as rewarding as writing for adults, and as challenging. Children are becoming more sophisticated at younger ages, and generally enjoy reading books at their intelligence level. Students in this class will learn to avoid stereotypes, moralistic tales, and stories with talking animals. In this course, we will sample some marvelous children’s literature, investigate some time-honored writing techniques, and find a venue for our own youthful imaginations. (4 units) Prerequisite: Prerequisite: FOR 101

**WTG 350 Advanced Creative Writing: Creating Harmony of Sound and Coherence of Meaning**

Maharishi says, “writers start with what the eyes see, the ears hear and the hands feel, then travel into space and time to explore the beyond.” Following this prescription, this course offers advanced students the opportunity to deepen their knowledge and hone their writing skills by focusing on a body of their own work in poetry or fiction. Students will acquaint themselves with authors, write personal responses to books and articles, attend readings, and watch videotaped interviews of famous writers. Course participants will also workshop their manuscripts with their classmates and make an extensive presentation of their work. The final outcome will be a submission for publication. (4 units) Prerequisite: WTG 192 or consent of instructor.
WTG 355 Writing in the Professions: Toward Fulfillment of Desires — Effective Communication in Business
Each profession has its preferred way of communicating. Good writers often find their niche in adapting to the style and techniques of a specific profession. In this course, we will investigate a number of professional forms of communication. Writing projects are designed to develop the students’ abilities to communicate clearly and effectively in a student’s preferred area of interest. (4 units) Prerequisite: Prerequisite: FOR 101

WTG 360 Writing and Photography
This course teaches the basics of digital photography and how to write about it. Students will learn how to adjust the digital "negative" in an image-editing program such as Adobe Photoshop. Students will keep a daily journal of their photographic experiences, learn to photograph and write about the environment, and produce a photo essay on their favorite topic. For daily printing needs, students will use online sources, such as Snapfish or Shutterfly. The course will also include at least one field trip and a variety of creative photographic assignments. For the final portfolio, students will select their best photographs to enlarge and learn how to print and mat them. Requirements: a $25 fee for materials and at least a 7-megapixel camera with zoom lens and manual controls; this means the ability to manually adjust shutter speed and aperture size. Prerequisite: Prerequisite: FOR 101

WTG 364 (FA 287) Screenwriting: Expanding Awareness — Translating the Language of Written Communication into the Language of Film and the World of the Visual
In this course, students will create an actual screenplay. More than just learning the form of screenwriting, students will write with the full intention of producing a filmable script. We will study a number of models, including films, film clips, and a published screenplay. To help ensure success, before beginning to write the screenplay students will compose a premise, a structure-step, and a scene outline. [Same as FA 287] (4 units) Prerequisite: FOR 101

WTG 370 Writing for Fun and Profit: Niche Markets
This is a course for students who would like experience in professional writing for niche publishing markets, such as educational testing. We’ll explore a variety of markets and in detail: the educational testing market. For that market, we’ll focus on the compactness and concision necessary for writing test passages, the necessity for selecting topics appropriate for testing and recognizing sensitivity issues, mastering editing skills necessary to create grammatical and mechanical correctness, as well developing an eye for topics that will appeal to the appropriate grade level. The course will include a professional workshop with a testing development specialist, the possibility of a follow-up internship with American College Testing in Iowa City, and freelance writing opportunities.

WTG 399 Directed Study
(variable units) Prerequisite: consent of the department faculty
WTG 410 Travel Writing: Discovering the Universal in the Particular — Conveying the Sense of Feeling at Home in Unique Places of the World

From Mark Twain to John Steinbeck, many of the world’s best writers have been drawn to travel writing. By analyzing the work of great travel writers and through in-class writing workshops, students become familiar with techniques of travel writing. Highlighting the course are three day-trips to nearby tourist destinations, during which students learn to research articles and record their personal observations in a travel journal. The course culminates in the writing of a personal travel essay for publication. How to write a query letter and the top online markets for travel articles will also be covered. (4 units) Prerequisite: WTG 192 or consent of instructor
DEPARTMENT OF MAHARISHI VEDIC SCIENCE

FACULTY

• Fred Travis, Ph.D., Chair, Maharishi Vedic Science, Dean of the Graduate School, Professor of Maharishi Vedic Science
• Samuel Boothby, Ed.D., Associate Professor of Maharishi Vedic Science and Education, Dean of the College of Arts and Sciences
• Thomas Egenes, Ph.D., Associate Professor of Maharishi Vedic Science and Sanskrit
• David Scharf, Ph.D., Associate Professor of Maharishi Vedic Science, Mathematical Sciences, and Physics
• Sue Brown, M.A., Assistant Professor of Maharishi Vedic Science
• Patricia Oates, Ph.D., Assistant Professor of Maharishi Vedic Science
• Evan Finkelstein, Ph.D., Assistant Professor of Maharishi Vedic Science
• David Pohlman, Ph.D., Assistant Professor of Maharishi Vedic Science
• Isabelle Matzkin, M.A., Assistant Professor of Music and Maharishi Vedic Science
• Vernon Katz, Ph.D., Adjunct Professor of Maharishi Vedic Science and Philosophy
• Tina McQuiston, Ph.D., Adjunct Assistant Professor of Maharishi Vedic Science
• Binay Krishna Baral, M.A., Artist-in-Residence, Instructor of Flute

INTRODUCTION

The Department of Maharishi Vedic Science provides the systematic knowledge and experience of pure consciousness, Atma, the Self of every individual. This unmanifest self-referral field of pure intelligence at the basis of the thinking process is the source of all thought and action. As explained in the Veda and Vedic Literature and confirmed by modern physics, it is the non-changing field of order and intelligence at the basis of the universe — the Unified Field of Natural Law. Maharishi Vedic Science explains how this underlying unity unfolds into the diversity of life, and offers practical technologies for reconnecting each individual to the source of order and harmony within. The study of Maharishi Vedic Science develops the full potential of the knower and lays the foundation for complete knowledge of any discipline, while it fosters evolution to higher states of consciousness and progressive and fulfilling action in life. The Department of Maharishi Vedic Science meets its responsibilities in three ways:

1) Through the Department of Maharishi Vedic Science, it offers doctoral, master’s, and bachelor’s degrees and certificates in the Maharishi Vedic Science program and an undergraduate minor in Maharishi Vedic Science.
2) Through the Department for the Development of Consciousness, it offers instruction in the Transcendental Meditation and TM-Sidhi programs, and special Maharishi Vedic Science studies program.

3) The Department also directly oversees the following courses and programs:
   • The First Year program taken by most bachelor’s degree students.
   • The Forest Academy program courses taken by all students each semester, focusing deeply on Maharishi Vedic Science.
   • The Research in Consciousness courses or group practice of the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying, which all students take.

**Department of Maharishi Vedic Science**

Maharishi Vedic Science is the systematic study, experience, and development of the full range of life, both individual and cosmic. Its principles and technologies are based on the direct experience and understanding of the most vital element in creation — the unbounded field of consciousness that is the inner intelligence at the basis of every individual and the entire universe.

Maharishi Vedic Science provides the practices that allow each student to experience directly the infinite and timeless value of their own Self, unbounded pure consciousness, the simplest form of human awareness. These practices include the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying. The experience of the limitless field of pure consciousness, or pure intelligence, being the core of one’s own Self changes one’s life positively and dramatically.

Maharishi Vedic Science also provides complete knowledge and experience of the sequential evolution of the Veda and Vedic Literature, all the Laws of Nature. It clarifies how these abstract impulses of pure consciousness evolve into their concrete expressions in the human physiology and the cosmic physiology, the universe. Because the Veda and Vedic Literature are the Laws of Nature that govern both human and cosmic life, they are what Maharishi refers to as the blueprint of creation.

Raja Raam, Professor Tony Nader, M.D., Ph.D., under Maharishi’s guidance, has discovered that human physiology and cosmic physiology are the exact replica of the structures and functions expressed by the Veda and Vedic Literature. Maharishi Vedic Science makes use of this discovery to unfold the full creative genius, the total cosmic potential, of each student.

Two other Vedic technologies used in our programs for developing the full potential of every student are listening to the Veda and Vedic Literature and reading the Vedic Literature in Sanskrit. Maharishi explains these technologies align the student’s intelligence with the natural flow of Nature’s intelligence.
In time, because of the student’s developing consciousness, the creativity, energy, and intelligence governing the universe become accessible to and usable by the student.

Students effortlessly grow in their natural ability to think and behave from that unbounded level of pure consciousness; they grow in intelligence, creativity, and power, but equally in compassion, kindness, and moral character.

The immense practical value and benefits of being able to live life from its infinite potential are indescribable, literally anything becomes possible, even the creation of ideal societies and permanent world peace.

**Programs Offered**

The Department of Maharishi Vedic Science offers the following programs:

- B.A. in Maharishi Vedic Science
- B.A. in Maharishi Vedic Science for students who are already teachers of the Transcendental Meditation program
- Minor in Maharishi Vedic Science
- Minor in Maharishi Gandharva Veda
- M.A. in Maharishi Vedic Science — A 10-month program when taken in the standard class schedule (meeting six days per week, 4 weeks per 4-unit course) or a 3-year program when taken on the nonstandard schedule — meeting several times a week, 12 weeks per 3- or 4-unit course. Both programs require ten courses, 38 units in the standard program and 31 units in the nonstandard program. With additional course work students can add a concentration to the above master’s degrees in one of the following areas:
  1) Concentration in Maharishi Vedic Technologies
  2) Concentration in Educational Applications of Maharishi Vedic Science
  3) Concentration in Advanced Maharishi Vedic Science
  4) Concentration in Maharishi Consciousness-Based Health Care
  5) Concentration in Reading the Vedic Literature
  6) Concentration in Research in Consciousness

- M.A. in Maharishi Vedic Science with an Emphasis in Research in Consciousness — A three-year degree program that includes nine 3-unit courses taken along with three years of the Creating Coherence Program. Each class is 12 weeks long, meeting Saturdays. This is a terminal degree and does not prepare students for the doctoral program.

- Ph.D. in Maharishi Vedic Science — A four-to-six-year program if the core curriculum is taken in the standard class schedule (meeting 6 days per week). This is a seven-plus year program if the core curriculum is taken in a nonstandard format.

- Certificate in Research in Consciousness — a 24-month program for practitioners of the Maharishi Transcendental Meditation and TM-Sidhi programs.
SPECIAL FEATURES

• Focus on an ideal daily routine with emphasis on experiencing the Unified Field of Natural Law in daily research in consciousness.
• Extensive exposure to and work with over 30 years of taped lectures by Maharishi on the Science of Creative Intelligence and Vedic Science.
• Study of the full range of all aspects of the Vedic Literature in light of descriptions by Maharishi and Raja Raam, including Veda, Vedanga, Upanga, Upaveda, Itihasa, Purana, Smriti, Brahmana, and Pratishakhya.
• Experience with pronunciation of and the ability to read the Sanskrit language, which Maharishi has described as the language of Nature.
• Exploration of the scientific character of Maharishi’s knowledge, including the basic research methods of modern science and its objective verification of Maharishi Vedic Science.
• Investigation of the principal theoretical research tools of Maharishi Vedic Science and the Science of Creative Intelligence including Unified Field and Richo Akshare Charts.
• Knowledge recently brought to light by Maharishi, including the Maharishi Master Management program and the discovery of Veda and Vedic Literature in human physiology.
• Development of communication skills in Maharishi Science of Creative Intelligence and Maharishi Vedic Science with emphasis on writing and speaking skills.

The Bachelor of Arts Degree
• Coverage of all the major themes of the Maharishi Vedic Science program including higher states of consciousness, collective consciousness, and Sanskrit and reading the Vedic Literature.
• Study of source documents in Maharishi Vedic Science with emphasis on the Science of Being and Art of Living.
• Development of writing and speaking skills as students apply Maharishi Vedic Science to the areas of health, education, management, and rehabilitation.
• A one-month integrative writing exercise unifying the various themes of the student’s academic experience at Maharishi University of Management.

The Master of Arts Degree
This program gives knowledge and experience of the student’s own cosmic nature through Maharishi Vedic Science and its technologies for the development of consciousness. It is offered in two formats: a 10-month 6-day-a-week format and a 3-year evening-and-weekend format. The themes of knowledge include self-referral, the mechanics of creation, Maharishi’s Apaurusheya Bhashya of Rik Veda, the Veda and Vedic Literature, and Veda in human physiology.
Following the course work, students can take one year of additional courses in specified areas of Maharishi Vedic Science.
In addition, students learn to apply a number of technologies of Maharishi Vedic Science to culture higher states of consciousness and balanced, full health. The 10-month program includes:
• Systematic study of Maharishi’s books and tapes;
• Systematic study of the Veda and Vedic literature and its relation with the structure and functioning of the brain;
• Periods of extended TM® and TM-Sidhi practice in each course;
• Reading Vedic Literature in the original Devanagari script;
• Listening to Vedic recitation each day;
• Having a daily routine to promote deep experiences during the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying.

**The Ph.D. Degree**

This program is for those individuals who wish to become professional exponents of Maharishi Vedic Science. You will develop your writing and speaking skills, gain a fuller grasp of principles of Maharishi Vedic Science, and develop a specialization in Maharishi Vedic Science, either (1) Vedic Literature, (2) Applications of Maharishi Vedic Science, (3) Modern Science and Maharishi Vedic Science, or (4) Higher States of Consciousness.

**Department for the Development of Consciousness**

**Research in Consciousness (RC) Courses:** Regular practice of the Maharishi Transcendental Meditation and TM-Sidhi programs, including Yogic Flying, represents ongoing laboratory work in Maharishi Vedic Science and fulfills a primary goal of the University — development of consciousness, on both individual and collective levels. All students take part in these courses twice daily. Specific grading policies for these courses are provided by the Research in Consciousness Office and the Registrar. (These courses are described more fully at the end of this section.)

**Special Maharishi Vedic Science Studies Program:** This program allows students to earn credit through course work taken here in Fairfield and in other parts of the world. The purpose of this program is to recognize the academic accomplishments of students who complete the unique courses in Maharishi Vedic Science, described in “Special M.V.S. Studies Courses” under “Course Descriptions” for the Department of Maharishi Vedic Science. Non-degree-seeking students who later decide to seek a degree may apply courses successfully completed under the Special Maharishi Vedic Science Studies program toward degree requirements, with the approval of the student’s academic advisor. For details about the policies and application procedures for these courses, please contact the Registrar’s Office.

**Instruction in the Transcendental Meditation Technique and the TM-Sidhi Program:** The Department offers instruction in the practice of the Transcendental Meditation technique (offered separately or as part of the Science of Creative Intelligence courses, FOR 100 and FOR 500) and the TM-Sidhi program (RC 329 and RC 330), available for additional cost beyond the regular tuition charges.
DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Bachelor of Arts Degree in Maharishi Vedic Science
Before entering the major in Maharishi Vedic Science, students must complete MVS 102 (waived for graduates of Maharishi School), MVS 202, PH 101, and WTG 191.

Graduation Requirements for the Bachelor of Arts Degree in Maharishi Vedic Science
To graduate with a B.A. in Maharishi Vedic Science, students must successfully complete all general requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) The requirements for the major are 48 units of course work as listed below.

32 units of required courses:
• MVS 208 Fundamentals of Maharishi Vedic Science (4 units)
• MVS 210 Veda and Vedic Literature in Maharishi Vedic Science (4 units)
• MVS 225 Maharishi Vedic Science and Religion (4 units)
• MVS 240 EEG, Brain and Enlightenment (4 units)
• MVS 300 Science of Being (4 units) or MVS 302 Bhagavad-Gita (4 units)
• MVS 308 Individual Benefits from the Transcendental Meditation Program (4 units)
• MVS 309 Fundamentals of World Peace (4 units)
• MVS 391 Senior Capstone Writing and Speaking Project (4 units)

plus at least 16 units from one of the following options

Option 1 — Reading Vedic Literature
• MVS 321 Reading the Vedic Literature 1
• MVS 322 Reading the Vedic Literature 2
• MVS 323 Reading the Vedic Literature 3
• MVS 324 Reading the Vedic Literature 4

Option 2 — TM Program Teacher Training*
• MVS 490 Transcendental Meditation Program Teacher Training — Part 1
• MVS 491 Transcendental Meditation Program Teacher Training — Part 2
• MVS 492 Transcendental Meditation Program Teacher Training Program Fieldwork

Option 3 — TM Program Research Internship*
• MVS 497 Transcendental Meditation Program Research Internship (24 units), or

Option 4 — Maharishi Gandharva Veda Music
16 units taken within one year from the following:
• MVS 340 Maharishi Gandharva Veda Musicianship
• MVS 342 Health Benefits of Maharishi Gandharva Veda
• MVS 345 Melody in Maharishi Gandharva Veda
• MVS 346 Rhythm in Maharishi Gandharva Veda
• MVS 452 Recital Prep
• Plus a recital or final thesis

Option 5 — *Physiology and Health*
• PH 260 Self-Pulse Diagnosis
• PH 262 Diet, Digestion, and Nutrition
• PH 263 Maharishi Yoga Asanas
• BIO 260 Biology I: Living Systems

*Choosing Option 2 or 3 does not guarantee that students will be admitted into MVS 490, MVS 491, MVS 492, or MVS 497. Students who are not accepted into these courses are encouraged to take one of the other options, especially Option 1 — Reading Vedic Literature. The units awarded for MVS 490 and MVS 491 are variable. NOTE: MVS 490, MVS 491, and MVS 492 are generally taken after all other course work for the bachelor’s degree has been completed.

**Entrance Requirements for the Bachelor of Arts Degree in Maharishi Vedic Science for Teachers of the Transcendental Meditation Technique**
The B.A. in Maharishi Vedic Science for Teachers of the *Transcendental Meditation* Technique has been designed for those teachers of the Transcendental Meditation technique who have extended experience as professionals in the Transcendental Meditation program prior to enrolling in the B.A. in Maharishi Vedic Science major. To enter this program, students must be eligible for 24 units of credit for either Teaching Internship (MVS 493) or Research Internship (MVS 497).

**Graduation Requirements for the Bachelor of Arts Degree in Maharishi Vedic Science for Teachers of the Transcendental Meditation Technique**
To graduate with a B.A. in Maharishi Vedic Science for Teachers of the *Transcendental Meditation* Technique, students must successfully complete all requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) The requirements for the major are 48 units of course work as follows:

24 units from the following:
• MVS 493 *Transcendental Meditation* Program Teacher Training Program Teaching Internship
• MVS 497 *Transcendental Meditation* Program Research Internship

plus up to 24 units from the following:
• MVS 490 *Transcendental Meditation* Program Teacher Training — Part 1
• MVS 491 *Transcendental Meditation* Program Teacher Training — Part 2
• MVS 495 *Transcendental Meditation* Program Governor Training
• MVS 498 *Transcendental Meditation* Program Minister Training
• MVS 308 Individual Benefits from the *Transcendental Meditation* Program
• MVS 309 Fundamentals of World Peace
• MVS 391 Senior Capstone Writing and Speaking Project
• MVS 208 Fundamentals of Maharishi Vedic Science
• MVS 210 Veda and Vedic Literature in Maharishi Vedic Science
• MVS 240 EEG, Brain and Enlightenment
• MVS 300 Science of Being

Requirements for the Minor in Maharishi Vedic Science
To graduate with a minor in Maharishi Vedic Science, students must successfully complete any five (20 units) courses in Maharishi Vedic Science numbered higher than MVS 192.

Requirements for the Minor in Maharishi Gandharva Veda
To graduate with a minor in Maharishi Vedic Science, students must successfully complete the five courses in Maharishi Gandharva Veda: MVS 340, 342, 345, 346, 452.

Requirements for the Minor in the Development of Consciousness
To graduate with a minor in the Development of Consciousness, students must complete the following course work in Forest Academies and Research in Consciousness:

Required courses:
• FOR 100 Science of Creative Intelligence or FOR 101 Science and Technology of Consciousness

and one Forest Academy for each semester enrolled, to be taken during that semester

Research in Consciousness
2 units with a grade of A per semester of:
• RC 320 Collective Practice of the TM Program

or 4 units with a grade of A per semester of:
• RC 332 Collective Research in Consciousness

Requirements for the Specialization in Teaching the Transcendental Meditation Program
The Specialization in Teaching the Transcendental Meditation Program can be added to an undergraduate or graduate student’s degree. Undergraduates need to complete 24 units, graduate students 8 units, from the following courses:

• MVS 490 Transcendental Meditation Program Teacher Training — Part 1
• MVS 491 Transcendental Meditation Program Teacher Training — Part 2
• MVS 492 Transcendental Meditation Program Teacher Training Program Fieldwork Internship
Master of Arts Degree in Maharishi Vedic Science

Entrance Requirements
For entrance into the M.A. in Maharishi Vedic Science program, students must hold 1) a bachelor’s degree or 2) a B.A. equivalency including significant professional standing in Maharishi Vedic Science substantiated by an entrance exam. Students entering the standard 10-month program who are not yet practicing the Transcendental Meditation program will receive instruction in the Transcendental Meditation technique as part of their first course. It is recommended that all students in this M.A. program also practice the TM-Sidhi program. Those students who have not yet learned the TM-Sidhi program may be able to learn these techniques after they have enrolled.

Students entering in the nonstandard 3-year program must be practicing both the Transcendental Meditation and TM-Sidhi programs.

NOTE: For students whose first language is not English, a TOEFL score of 600 is required for entrance into this program.

Graduation Requirements for the Master of Arts Degree in Maharishi Vedic Science
In order to qualify for the degree of M.A. in Maharishi Vedic Science, students must successfully complete all requirements for the master’s degree, including FOR 500, the Science of Creative Intelligence, and two more units of Forest Academies. Students are encouraged to take the fall and spring weekend World Peace Assemblies. (Please refer to “Degree Requirements” in “Academic Policies.”) In addition, students must complete 38 units of course work as follows:

- MVS 461 Maharishi Self-Pulse Reading (4 units)
- MVS 504 Physiology, Consciousness, and the Veda (4 units)
- MVS 509 Bhagavad-Gita Gita (4 units) or MVS 516 Science of Being (4 units)
- MVS 585 Capstone — Celebrating Perfection in Education (4 units)
- MVS 525 and 526 Sanskrit (4 units)
- MVS 540 Principles of Maharishi Vedic Science (2–4 units)
- MVS 544 Physics of Invincibility (2 units)
- MVS 552 Developing Brahman Consciousness (4 units)
- MVS 553 Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World (4 units)
- MVS 555 Ideal Administration (4 units)

NOTE: In the event that a student has completed some of these courses as part of previous undergraduate and/or graduate degrees, the student may petition the Department to take one of the two reading and rounding courses below during those terms.

- MVS 480 Topics in Maharishi Vedic Science (4 units/block)
- MVS 534 Readings in Vedic Literature (4 units/block)
Graduation Requirements for the Master of Arts Degree in Maharishi Vedic Science for Teachers of the Transcendental Meditation technique

Students who are qualified as teachers of the Transcendental Meditation technique and have worked full-time teaching the TM program can earn units from their TM teaching towards their academic degree. Requirements for the degree are (38 total units). These can be completed by the following course work:

• MVS 585 Capstone — *Celebrating Perfection in Education* (4 units)
• MVS 492 TM Program Teaching Internship (up to 24 units)
and the remaining units to complete the program can be chosen from the following:

• MVS 461 *Maharishi Self-Pulse* Reading (4 units)
• MVS 504 Physiology, Consciousness, and the Veda (4 units)
• MVS 509 Bhagavad-Gita Gita (4 units) or MVS 516 *Science of Being* (4 units)
• MVS 525 and 526 Sanskrit (4 units)
• MVS 540 Principles of Maharishi Vedic Science (2–4 units)
• MVS 544 Physics of Invincibility (2 units)
• MVS 552 Developing Brahman Consciousness (4 units)
• MVS 553 *Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World* (4 units)
• MVS 555 Ideal Administration (4 units)
• MVS 497 TM Program Research Internship (variable units up to a maximum of 24 units)

**Extended Professional Schedule (Nonstandard) of M.A. in Maharishi Vedic Science**

Students, who currently practice the TM-Sidhi program and whose extended plan of study allows them to complete at least 30 units of RC 535, may elect to earn a terminal version of the M.A. in MVS by completing the 3-unit versions of the required and elective courses listed above, plus MVS 517 Research Paper or MVS 585 Capstone, and by demonstrating the ability to read Sanskrit in Devanagari script. Students who wish to be eligible for application for admission to the Ph.D. in Maharishi Vedic Science must also take MVS 548 Academic Writing (1 unit) to accompany each of the 3-unit courses of their degree.

In this case, Graduation Requirements for the nonstandard M.A. degree are:

31 units as follows:

• MVS 525 and 526 Sanskrit (3 units or more as necessary to read Devanagari script)
• MVS 504 Physiology, Consciousness, and the Veda (3 units)
• MVS 509 Bhagavad Gita (3 units) or MVS 516 *Science of Being* (4 units)
• MVS 544 Physics of Invincibility (3 units)
• MVS 552 Developing Brahman Consciousness (3 units)
• MVS 540 Principles of Maharishi Vedic Science (3 units)
• MVS 553 *Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World* (3 units)
• MVS 555 Ideal Administration (3 units)
• MVS 585 Capstone — *Celebrating Perfection in Education* (variable units), or MVS 517 Research Paper (variable units)

**Master’s Degree Concentrations**
Students in the M.A. in Maharishi Vedic Science listed above may add a concentration to their degree by completing additional course work in one of the following areas:

**Academic Concentrations** — Students complete 30–40 units of additional course work. The three Academic Concentrations are:

- **Concentration in Advanced Maharishi Vedic Science**
  30–40 units of course work in classes that were not taken for the M.A. in SCI, or have been significantly reformulated with new books and materials since they were taken, or MVS 520 Advanced Studies in Maharishi Vedic Science

- **Concentration in Physiology and Health**
  30–40 units of graduate courses in Physiology and Health

- **Concentration in Reading the Vedic Literature**
  30–40 units of course work selected from the following:
  - MVS 525 Sanskrit and Maharishi Vedic Science
  - MVS 526 Sanskrit
  - MVS 527 Advanced Sanskrit
  - MVS 534 Readings in Vedic Literature

**Practicum Concentrations** Students expand, apply, and express their growing knowledge of the Science of Creative Intelligence and Maharishi Vedic Science in professional settings. The Practicum Concentrations may be taken concurrently with the nonstandard schedule of study, or they may be taken after some or all of the M.A. course work in the standard schedule has been completed.

The two Practicum Concentrations are:

- **Concentration in Maharishi Vedic Technologies**
  30-40 units of:
  - MVS 580 Practicum in Maharishi Vedic Technologies

- **Concentration in Educational Applications of Maharishi Vedic Science**
  30-40 units of:
  - MVS 581 Practicum in *Consciousness-Based* Education

- **Research in Consciousness Concentration**
  Students complete 3 years of extended practice of the Maharishi Transcendental Meditation and TM-Sidhi programs.
  27 units of:
  - RC 545 Advanced Collective Research in Consciousness
• **Concentration in Maharishi Gandharva Veda Music**
  30–40 units of course work selected from the following:
  • MVS 539 *Maharishi Gandharva Veda* Musicianship
  • MVS 562 Health Benefits of Maharishi Gandharva Veda
  • MVS 565 Melody in Maharishi Gandharva Veda
  • MVS 566 Rhythm in Maharishi Gandharva Veda
  • MVS 572 Recital Prep

**Graduation Requirements for the Master of Arts Degree in Maharishi Vedic Science with an Emphasis in Research in Consciousness**
This three-year program combines extended research in consciousness, practice of the TM and TM-Sidhi program, with classes meeting on a nonstandard schedule (12 weeks per 3-unit course). This is a terminal degree. It does not fulfill the prerequisites for entering the doctoral program in Maharishi Vedic Science.

In order to qualify for the degree of M.A. in Maharishi Vedic Science with an emphasis in Research in Consciousness, students must successfully complete all general requirements for the master’s degree, including FOR 500, the Science of Creative Intelligence. (Please refer to “Degree Requirements” in “Academic Policies.”) In addition, students must complete 54 units of course work as follows:

27 units of the following required courses:

• MVS 504 Physiology, Consciousness, and the Veda (3 units)
• MVS 509 Bhagavad Gita (3 units) or MVS 516 *Science of Being* (3 units)
• MVS 585 Capstone — *Celebrating Perfection in Education* (3 units)

18 units from:

• MVS 525 and 526 Sanskrit (3 units)
• MVS 534 Readings in Vedic Literature (3–4 units)
• MVS 540 Principles of Maharishi Vedic Science (3 units)
• MVS 544 Physics of Invincibility (3 units)
• MVS 552 Developing Brahman Consciousness (3 units)
• MVS 553 *Discovery of Veda and Vedic Literature in Human Physiology*: How Consciousness Creates Your World (3 units)
• MVS 555 Ideal Administration (3 units)

plus 27 units of

• RC 545 Advanced Collective Research in Consciousness

Note: The general degree requirement of RC 535 is satisfied by RC 545 for students in this program. The only Forest Academies required in this program are FOR 500 or FOR 501 in the first semester.

**Entrance Requirements for the Ph.D. Degree in Maharishi Vedic Science**
The Ph.D. in Maharishi Vedic Science is the highest academic and professional degree in the discipline devoted to the study of the holistic development of consciousness. The
Department will, therefore, evaluate students not only for their demonstrated ability to undertake doctoral level academic work in the field, but also for the prospective student’s demonstrated ability to serve as an example of the highest standards of holistic development.

Students entering the program must be practicing the TM-Sidhi program for at least one year, hold a Master of Arts degree in Maharishi Vedic Science (please refer to listing above for requirements), have at least one additional year of formal study of Maharishi Vedic Science, or experience in professions involving implementation of Maharishi Vedic Science, and have demonstrated the ability to undertake doctoral level work. For acceptance into the program, a student’s complete academic record and personal recommendations are also considered.

This program is for those individuals who wish to accelerate growth to enlightenment and become professional exponents of Maharishi Vedic Science. You will deepen your experiences of higher states of consciousness, gain a fuller grasp of principles of Maharishi Vedic Science, and refine your presentation and teaching skills. You may choose from four tracks: (1) Reading Vedic Literature in Sanskrit, (2) Applications of Maharishi Vedic Science to Society, (3) Modern Science and Maharishi Vedic Science, and (4) Research in Higher States of Consciousness.

**Graduation Requirements for the Ph.D. Degree in Maharishi Vedic Science**

The Core Curriculum consists of 58 units selected by the faculty from the following courses:

**Year 1**
- MVS 670 Advanced Analysis and Synthesis of Total Knowledge. (8 units)
- MVS 671 Maharishi’s Insight into the Veda and Vedic Literature: Fabrics of Immortality. (8 units)
- MVS 672 Mastering Veda and Vedic Literature in the Human Physiology. (4 units)
- MVS 673 Original Research in EEG, Brain and Enlightenment. (6 units)
- MVS 674 Peace-Creating Professionals: Applying Maharishi Vedic Science to Society. (8 units)
- MVS 680 Maharishi Vedic Science Seminar (1 unit per semester)
- MVS 691 Preparation for the Written Qualifying Examination: Synthesizing and Expressing Total Knowledge (4 units)

Upon successful completion of this core curriculum, you will be advanced to candidate status. During the next semester all students will complete their oral comprehensives and write their dissertation proposal.

**Year 2**
- MVS 693 Faculty Development Seminar and Oral Qualifying Exam (4 units)
• MVS 695 Faculty Development Seminar (4 units)
• MVS 700 Dissertation proposal: The Scientific Character of Research in Consciousness and Reading the Vedic Literature (12 units)

Upon successful completion of these courses, which culminates with the written proposal, you will advance to the Ph.D. researcher status and then enroll in:

MVS 701 Original Research and Dissertation Preparation.

The Ph.D. degree will be awarded to a Ph.D. researcher once the following steps have been completed:
• Presentation of the dissertation findings in a formal lecture with an open public forum for discussion
• Acceptance of dissertation by the Graduate School and the Library
• Certification by the graduate faculty of the student’s continuing exemplification of the highest standards of holistic development.

Certificate in Research in Consciousness
To graduate with a Certificate in Research in Consciousness, a student must successfully complete 24 months (12 units) of Research in Consciousness: The Source of Management (RC 350).

COURSES

Undergraduate Maharishi Vedic Science Courses

MVS 100 The Transcendental Meditation Program: Developing the Total Potential of the Human Brain
All students begin their studies at Maharishi University of Management by learning the Transcendental Meditation technique, a simple, natural, effortless procedure to develop full human potential and culture experiences of higher states of human consciousness. This course will cover the nature of the practice of the Transcendental Meditation technique, scientific research, and its applications in individual life and society. Personal instruction in the Transcendental Meditation technique will be included in this course. The laboratory component of this course will include twice-daily group practice of the Transcendental Meditation technique.

MVS 102 Introduction to Sanskrit and Maharishi Vedic Science: Learning the Language of Nature and Understanding Principles of Natural Law
“Consciousness is the most basic element in creation; therefore the study of consciousness and research in consciousness, which is offered by the traditional Vedic Literature, gives the student the ability to do anything and achieve anything with the support of the evolutionary power of Natural Law.” — Maharishi
Reading the Vedic Literature in Sanskrit is a new technology of Maharishi Vedic Science to speed the development of higher states of consciousness. In this course students learn to read the Vedic Literature in Sanskrit and discover how this practice actually strengthens brain functioning. Students also learn the basic principles of Maharishi Vedic Science, including the recent discovery of how human physiology forms a perfect replica of Natural Law, as embodied in the 40 aspects of the Veda and Vedic Literature. This historic discovery reveals that the natural laws governing the universe are the same laws governing our physiology — meaning that each of us has access, within our own physiology, to the total potential of Natural Law. This in turn gives us the potential to know anything, do anything, and accomplish anything. (4 units) (Note: Students with a background in Maharishi Vedic Science and reading Sanskrit in Devanagari take MVS 192.) Prerequisite: FOR 101

200-Level Courses and Above

MVS 202 Higher States of Consciousness: Realizing Your Full Human Potential in the Growth of Enlightenment to its Pinnacle in Unity Consciousness
This course covers the description of higher states of consciousness that arise naturally and spontaneously through the Transcendental Meditation and TM-Sidhi programs. The course explores each of the higher states of consciousness through subjective descriptions of direct experience and objective scientific research. (4 units) Prerequisite: FOR 101

MVS 208 Fundamentals of Maharishi Vedic Science: Atma and Veda — the Self-Referral Dynamics of Consciousness Underlying the Individual and the Universe
This course systematically investigates Maharishi’s explanation of the self-referral dynamics and structure of pure consciousness, as being the ultimate source and content of all the laws of nature that are responsible for the creation and orderly functioning of both individual and universal life. Topics include the analysis and synthesis of the Nature and range of Atma, the universal Self of every individual; how the fluctuations of Atma appear as the structure and qualities of the 4 Vedas in terms of their qualities and sequential unfolding; how the structures and functions of the Vedas correspond to the human physiology and the cosmic physiology of the cosmos; the reading of the Vedic Literature in Sanskrit; and exploring the correlation between the cosmic creative process as expressed in the Vedas with theories of the structure and functioning of the unified field Superstring theory of modern quantum physics. (This course is a prerequisite for MVS 210) Prerequisite: FOR 101

MVS 210 The Vedic Literature in Maharishi Vedic Science: Sequential Expression of Total Natural law, the Constitution of the Universe
This course explores the 36 branches of the Vedic Literature that are contained within and yet have sequentially unfolded from the Rik, Sama, Yajur and Atharva Vedas; for example, the 6 “Limbs of the Veda” called the Vedangas: Shiksha, Kelp, Vyakaran, Nirukt Chhand and Jyotish, which express the Vedic knowledge of the specific engineering mechanics of creation; the 6 “Subordinate Limbs of the Veda” called the Upangas and also known as the 6 systems of Indian philosophy: Nyaya, Vaisheshik,
Sankhya, Yoga, Karma Mimansa and Vedanta, which explore how to systematically and completely understand and experience the full range of any object of inquiry; all the 36 branches of the Vedic Literature are examined in relation to their specific qualities and contributions to the Totality of knowledge and the infinite organizing power called the Constitution of the Universe—the totality of Natural Law that governs the universe with perfect order. The structure and functions of the Vedic Literature are also explored in terms of their corresponding expressions as the various aspects of the individual human physiology and the cosmic physiology of the universe. (4 units) Prerequisite: FOR 101 and MVS 208

MVS 220 Constitution of the Universe: Fulfilling the Ideals of Man-Made Constitutions to Create Ideal Quality of Life
In this course students will compare and contrast the Constitution of the Universe and man-made constitutions, and understand how implementation of the Global Country of World Peace’s programs to fully enliven the Constitution of the Universe in individuals and nations can bring fulfillment to the highest ideals of man-made constitutions. By the end of this course students will be able to explain how Rik Veda and the Vedic Literature function as the Constitution of the Universe, have analyzed national constitutions to see the extent to which they embody historical and sociological factors or timeless principles, analyzed sample national constitutions and current events to see if its ideals have been accomplished, analyzed how research on the individual and social benefits of the Transcendental Meditation and TM-Sidhi programs brings fulfillment to the stated goals of specific national constitutions, using the Constitution of India book as a model, analyzed the UN charter as an example of a global constitution in light of the Constitution of the Universe, and will be able to explain how countries can align their national constitutions with the Constitution of the Universe. (4 units) Prerequisite: FOR 101

MVS 221 Sanskrit 1: The Language of Nature — Learning the Vedic Sounds in Devanagari Script
Students receive a sequential introduction to the proper pronunciation and reading of classical Sanskrit. In addition, students study Maharishi’s explanation of the role of Sanskrit, as the language of Nature, in his Vedic Science. (4 units) Prerequisite: MVS 102

MVS 222 Sanskrit 2: Enlivening the Language of Nature Within — Learning to Read the Vedic Literature
Students read selected Vedic expressions and chapters from the Bhagavad-Gita to develop fluency in reading from the Devanagari script. Students deepen their understanding of the role of reading Sanskrit, as the language of Nature, for cultivating higher states of consciousness. (4 units) Prerequisite: MVS 221 or MVS 102
MVS 223 Sanskrit 3: Letting Your Awareness Flow in the Sequence of Vedic Sounds, the Language of Nature
Students read the Bhagavad-Gita and, after gaining experience in the correct pronunciation and the ability to read Devanagari text, begin reading the Upangas and the Upanishads. (4 units) Prerequisite: MVS 222

MVS 225 Maharishi Vedic Science and Judaism, Christianity, and Islam
Students will explore universal principles of life expressed by Maharishi Vedic Science and the religions of Judaism, Christianity, and Islam. The course will provide students the opportunity to study the following topics: The existence and nature of God; the main purpose of human life; the ultimate cause of all problems and suffering; turning within: the technology of transcending; the development of higher states of consciousness; and the creation of heaven on earth. (4 units) Prerequisite: FOR 101

MVS 226 Maharishi Vedic Science and Buddhism, Taoism, Confucianism
Students will explore universal principles of life expressed by Maharishi Vedic Science and the religions of Buddhism, Taoism, and Confucianism. The course will provide students the opportunity to study the following topics: The existence and nature of God; the main purpose of human life; the ultimate cause of all problems and suffering; turning within: the technology of transcending; the development of higher states of consciousness; and the creation of heaven on earth. (4 units) Prerequisite: FOR 101

MVS 235 Music Appreciation: Appreciating Music as the Art of Giving Audible Life to the Harmonious Structure of Natural Law
This course investigates the nature of music through the study of western classical masterpieces, music theory, piano lessons, and Maharishi Gandharva Veda — the classical music of North India originating from the ancient Vedic civilization. Students explore the mechanics of transformation of consciousness into audible sound, and the fulfillment of music’s supreme quest to establish harmony within the musician and in the environment. (4 units) (Distribution Area: Fine Arts or Humanities) Prerequisite: FOR 101

MVS 240 EEG, Brain, and Enlightenment: Brain Functioning Underlies Conscious Processing, States of Consciousness, and Enlightenment
Brain functioning underlies conscious processing, states of consciousness, and enlightenment. You will learn how to record EEG (brain waves) and other physiological measures (breath rate, heart rate, and skin conductance), will learn the brain signatures of the practice of the Transcendental Meditation technique and of higher states of consciousness, and will conduct original research testing a research question that you generate during the course. (4 units) Prerequisite: FOR 101

MVS 300 Science of Being and Art of Living: Maharishi’s Guide to Life in Enlightenment
Science of Being and Art of Living was His Holiness Maharishi Mahesh Yogi’s first book, published in 1963. In this course, both through reading and through studying Maharishi’s video tapes, students investigate the main themes of the book — Being, the
essential constituent of creation, how to contact and how to live Being, how to live one’s full potential, in thought, speech, action, and relationships, and God realization. (4 units) Prerequisite: FOR 101

MVS 301 Source Documents in Maharishi Vedic Science: The Unfoldment of Pure Knowledge in Maharishi’s Writings
Students examine selected source documents by His Holiness Maharishi Mahesh Yogi, including Creating an Ideal Society, and Thirty Years Around the World: Dawn of the Age of Enlightenment. Course topics include the structure and dynamics of the human mind, the self-referral mechanics of creation and the process of evolution, collective consciousness, and the historical foundations of the applied value of Maharishi Vedic Science. (variable units) Prerequisite: FOR 101

MVS 302 Bhagavad-Gita — Chapters 1–3: The Principles of Dharma, the Eternal Nature of Life, and Effortlessness of Transcending as the Basis of Right Action
Prerequisite: FOR 101

MVS 303 Bhagavad-Gita — Chapters 4–6: The Roles of Action and Silence, Knowledge and Experience, in Rising to Higher States of Consciousness
These courses study Maharishi’s translation and commentary on the Bhagavad-Gita, a work that sequentially unfolds profound principles of human behavior. The Bhagavad-Gita, as a textbook for Maharishi Vedic Science, contains the essence of the detailed knowledge of consciousness contained in the Vedic Literature. Course topics include the scope, structure, and dynamics of human behavior; the seven states of consciousness; collective consciousness; and the solution to the fundamental dilemma at the basis of human suffering. (variable units) Prerequisite: FOR 101

MVS 304 Applications of Maharishi Vedic Science: Creating a Stress-Free, Harmonious, Prosperous, and Enlightened Society
In this course, students examine applications of Maharishi Vedic Science to education and rehabilitation, government and defense, or business and industry. Then they review research documenting the effectiveness of the technologies of Maharishi Vedic Science in these areas. (variable units) Prerequisite: FOR 101

MVS 307 Practicum in Maharishi Vedic Science: Individual Project in Creating Heaven on Earth
In this course students gain experience presenting the practical application of Maharishi Vedic Science to an area of society that they studied in MVS 304. (4 units) Prerequisite: MVS 304

MVS 308 Research Design and Outcomes on the Transcendental Meditation Program: Verifying a Paradigm Shift in Human Potential
As a precise, systematic, and effective method for developing human consciousness, the Transcendental Meditation and TM-Sidhi programs have given rise to a substantial scientific research program. This course reviews contemporary methods of research — including issues from the philosophy of science — as it applies to the research on the
Transcendental Meditation program — and develops the ability to evaluate and explain specific studies on developing mental potential, improving health, and creating effective and rewarding social behavior. (4 units) Prerequisite: FOR 101

MVS 309 Fundamentals of World Peace: Creating Coherence in Collective Consciousness as the Basis for World Peace
Students explore various methods of creating peace, with special emphasis on the documented effectiveness of these methods, and understanding the underlying scientific explanations accounting for this effectiveness, particularly in the physics of invincibility. Students study the sociological concept of collective consciousness, and the course emphasizes in-depth examination of Maharishi Vedic technologies — particularly group practice of the TM-Sidhi program — and its ability to create coherence in collective consciousness as the basis for creating peace. (4 units) Prerequisite: FOR 101

MVS 312 Field Experience: Applying the Principles You Have Learned to Improve Quality of Life in Society
During this course students will work on campus or in nonprofit educational institutions authorized to hold courses in the Transcendental Meditation technique. Students will help organize courses, apply their lecture and/or checking skills, and help with expansion projects for these institutions. (variable units — may be repeated) Prerequisite: Consent of the instructor

MVS 314 Academic Mentorship: Participating with Faculty in Packaging Maharishi Vedic Science for Application in Society
In this course students will work closely with senior faculty on selected special projects, such as the development of books and other curricular materials on Maharishi Vedic Science. (variable units) Prerequisite: Consent of instructor

MVS 321 Reading the Vedic Literature 1: Cultivating Total Brain Functioning for Higher States of Consciousness Prerequisite: MVS 102

MVS 322 Reading the Vedic Literature 2: Aligning Individual Behavior with the Perfect Sequential Unfoldment of Cosmic Law Prerequisite: MVS 102

MVS 323 Reading the Vedic Literature 3: Enlivening the Essential Nature of the Physiology as Veda and Vedic Literature Prerequisite: MVS 102

MVS 324 Reading the Vedic Literature 4: The Secret Path to Perfection in Life
During these courses you will read the classical texts of Vedic Literature in the Devanagari script. The texts are read for the sound value, enjoying benefits in consciousness and in physiology. You will begin each series of this course with a major division of the Vedic Literature. (4 units) Prerequisites: MVS 222 or the ability to read Devanagari script; permission of the instructor
MVS 331 *Transcendental Meditation-Sidhi™* Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 332 *Transcendental Meditation-Sidhi* Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 340 *Maharishi Gandharva Veda Musicianship: Developing the Silent Connection between the Song of Individual Life and the Song of Creation*
What is beauty? Can musical talent be developed? Can we learn to perform without stage fright? These are some of the fundamental questions explored in this course—both theoretically and through practical experience. Students hear a colorful palette of Maharishi Gandharva Veda ragas as well as music from other cultures and time periods, to gain appreciation of the subtle, underlying principles of perception and aesthetics that govern ragas—and all music. Includes instruction in bamboo flute, tabla, sitar, or voice, according to availability. (4 units) Prerequisite: FOR 101

MVS 342 Health Benefits of Maharishi Gandharva Veda
Exploratory research indicates that the effects of listening to Maharishi Gandharva Veda music include an increase in brain wave coherence, more integrated behavior, and a tendency of mental activity to settle down and experience finer states of awareness. Students become familiar with this research and perform related studies of their own. Includes instruction in bamboo flute, tabla, sitar, or voice, according to availability. (4 units) Prerequisite: MVS 340

MVS 343 Maharishi Vedic Science, Sound, and Gandharva Music: Locating the Source of Gandharva Veda in the Self-Interacting Dynamics of Consciousness
Music has a powerful impact on human awareness. This course presents the profound correlation between sound, music, and consciousness. Special emphasis is given to the Shruti aspect of the Veda as the most coherent and primordial sound value in creation, and the mechanics of consciousness manifesting as sound and transforming into matter. Students also read the Sanskrit texts on music from the classical Vedic Literature, for the benefit of the sounds of the Vedic language. Included is instruction in at least one of the following: bamboo flute, tabla, sitar, or voice. (4 units, may be repeated) Prerequisite: MVS 340 or consent of instructor

MVS 344 Maharishi Gandharva Veda Ear Training: Culturing Refinement of Hearing from the Level of Pure Awareness at the Basis of Sensory Perception
Awareness of pitch and tuning, vocal training, rhythm, and studying the ten basic scales in Maharishi Gandharva Veda are the main aspects of this course. Elementary keyboards skills are taught to help support pitch identification. Includes instruction in bamboo flute, tabla, sitar, or voice, according to availability. (4 units) Prerequisite: MVS 340
MVS 345 Melody in Maharishi Gandharva Veda
The goal of this course is to develop fine awareness of pitch, and study how the uniquely sequential unfoldment of tones in a raga give rise to melody. Topics include musical form, composition, interpretation, improvisation, embellishment, and cognition. Includes instruction in either bamboo flute, tabla, sitar, or voice, according to availability. (4 units) Prerequisite: MVS 340

MVS 346 Rhythm in Maharishi Gandharva Veda
Students become fluent in the 5 major Gandharva rhythmic cycles and their variations, and study basic principles of rhythmic improvisation in Maharishi Gandharva Veda music. Rhythm is explored in light of its fascinating correlation with the verses of the Veda and with rhythmic cycles in nature and in life. Includes instruction in bamboo flute, tabla, sitar, or voice, according to availability. (4 units) Prerequisite: MVS 340

MVS 390 Senior Integration Project: Unifying the Diverse Themes of Maharishi Vedic Science in Your Holistic Awareness
In this course, students complete a comprehensive exam on the core content of the Maharishi Vedic Science major. Following completion of the exam, students learn how to write a substantial theoretical paper in Maharishi Vedic Science. The seminar includes instruction and practice in writing theoretical and research reviews, proper documentation, and writing an abstract. (4 units — may be repeated) Prerequisite: completion of required major course work

MVS 397 Advanced Topics in Maharishi Vedic Science: Exploring the Branches of Maharishi Vedic Science and Their Practical Technologies
Students explore advanced topics in Maharishi Vedic Science under the guidance of faculty and eminent Vedic scholars. Topics may include seminars on selected research themes, selected branches of the Vedic Literature, and Maharishi Technologies and the research on their applications. (4 units — may be repeated) Prerequisite: consent of instructor

MVS 399 Directed Study
(variable units) Prerequisite: consent of the department faculty

MVS 408 Professional Development in Maharishi Vedic Technologies: Learning and Applying the Technologies of Maharishi Vedic Science in Society
This course is designed for students who are taking part in professional training programs in Maharishi Vedic Technologies. (Variable units based on one unit of credit for each week of full-time instruction.) Prerequisite: consent of the Department

MVS 451 Maharishi Gandharva Veda Music Studio: Perfecting Your Ability to Flow in Silence and Give Expression to the Unexpressed in Sound and Song
This course is for students who are well on their way to completing the major in Maharishi Vedic Science with emphasis in Maharishi Gandharva Veda music. It is designed to help students focus on specific aspects of musical development under the guidance of the faculty. Included is instruction in at least one of the following: bamboo
flute, tabla, sitar, or voice. (4 units — may be repeated) Prerequisites: at least three Maharishi Gandharva Veda music courses and consent of instructor

MVS 452 Maharishi Gandharva Veda Recital Preparation: Preparing the Ground for Enlivening the Flow of Consciousness in Others
This course gives students the opportunity to polish their performance skills in preparation for a student recital. Practical considerations are also covered, such as advertising, stage preparation, sound checks, etc. Includes instruction in either bamboo flute, tabla, sitar, or voice, according to availability. (4 units; may be repeated) Prerequisites: at least three Maharishi Gandharva Veda courses and consent of instructor

MVS 480 Topics in Maharishi Vedic Science
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 485 Rotating University Abroad
There are many opportunities to study Maharishi Vedic Science abroad. In this course students will travel to a country that may play a special role in Maharishi's worldwide Transcendental Meditation program Movement, such as India, South Africa, or Switzerland, and study Maharishi Vedic Science in that context. The course may include taped lectures of Maharishi, study of Sanskrit, and excursions to relevant locales. In some cases, the focus shifts to study of the deep cultural traditions of a country such as China and how these traditions parallel Maharishi Vedic Science (4 units). Prerequisite: Consent of Department

MVS 490 Transcendental Meditation Program Teacher Training — Part 1
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 491 Transcendental Meditation Program Teacher Training — Part 2
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 492 Transcendental Meditation Program Teacher Training Program Fieldwork Internship
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 493 Transcendental Meditation Program Teacher Training Program Teaching Internship
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 495 Transcendental Meditation Program Governor Training
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 497 Transcendental Meditation Program Research Internship
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 498 Transcendental Meditation Program Minister Training
Course description in “Special Maharishi Vedic Science Studies” at end of this section.
MVS 499 Directed Study
(variable units) Prerequisite: consent of the Department faculty

Graduate Maharishi Vedic Science Courses

Note: All 3–4 unit graduate courses can be taken in 1.5–2 unit sections, sections A and B. However, both sections A and B must be taken in order for the course to be considered completed.

MVS 461 Maharishi Self-Pulse Reading: Assessing the Body’s Inner Intelligence through the Touch of Three Fingers on the Pulse
This course provides the theory and practical technique for detecting balance and imbalance in the body through the Maharishi Self-Pulse program. Students gain a thorough understanding of how the intelligence within the physiology is reflected in the pulse. The course also describes measures to correct imbalances before disease arises. Students not only learn to detect states of physiological balance and imbalance; they also learn how the Maharishi Self-Pulse program can create a balancing influence in any area of imbalance, spontaneously enhancing physiological integration. (variable units)
Prerequisite: acceptance to the MA in MVS

MVS 504 Physiology, Consciousness, and the Veda: Awakening Your Total Brain Potential
Learn how your brain is designed to be a perfect reflector of total Natural Law. See how consciousness structures the physiology and how the innumerable connections among our ten billion brain cells enable us to live higher states of consciousness. Measure your own growth of consciousness. (2–4 units)

MVS 509 Bhagavad-Gita Chapters 1–3: The Principles of Dharma, the Eternal Nature of Life, and Effortlessness of Transcending as the Basis of Right Action

MVS 511 Bhagavad-Gita Chapters 4–6: The Roles of Silence and Action, Knowledge and Experience, in Rising to Higher States of Consciousness
These courses study Maharishi’s commentary on the Bhagavad-Gita, which provides a systematic exposition of the development of human consciousness, its relationship to knowledge, and its application to improve the quality of individual and collective life. (variable units)

MVS 512 Fundamentals of Maharishi Vedic Science
In this course students learn basic principles of Maharishi Vedic Science, such as higher states of consciousness, levels of mind, 40 aspects of the Vedic Literature, Maharishi’s Apaurusheya Bhashya, and Maharishi Sthapatya Veda design. In addition, students learn the Sanskrit alphabet and practice reading the Bhagavad-Gita in the original Devanagari script. Students also learn numerous Vedic expressions from the Vedic Literature. (4–6 units)
MVS 515 Enlightened Education
During this course students dive deeply into understanding and experiencing the nature of knowledge itself, in its pure form within self-referral consciousness and its emergence in diverse expressions and applications. The text for the course, *Celebrating Perfection in Education*, unfolds Maharishi’s vision of Total Knowledge and connects profound Vedic themes of consciousness and creativity with the fundamentals of education. This course is an ideal opportunity for students to reflect on their own educational development in all its phases — both inner and outer. (2–4 units)

*Science of Being and Art of Living* was His Holiness Maharishi Mahesh Yogi’s first book, published in 1963. In this course, both through reading and through studying Maharishi’s video tapes, students investigate the main themes of the book — Being, the essential constituent of creation, how to contact and how to live Being, how to live one’s full potential, in thought, speech, action, and relationships, and God realization. (2–4 units)

MVS 517 Research Paper
In this course students research in depth a particular aspect of Maharishi Vedic Science. Students have the option of presenting their findings in a PowerPoint lecture or in a research paper. A faculty member in the Maharishi Vedic Science department supervises the research. (2–4 units)

MVS 520 Advanced Study in Maharishi Vedic Science: Analyzing the Fabric of Immortality
This course is designed for students who have completed the Department’s Vedic Science offerings and wish to reexamine themes from these courses in light of more recent findings in the discipline. Possible topics include: Veda and Vedic Literature, the self-referral dynamics of consciousness, and the discovery of Veda and Vedic Literature in the human physiology. Also, recent books and lectures will be used. (variable units — may be repeated) NOTE: This course is for students enrolled in the Advanced Concentration in Maharishi Vedic Science. Prerequisite: consent of instructor

MVS 525 Sanskrit and Maharishi Vedic Science: Learning the Language of Nature and Understanding Principles of Natural Law

MVS 526 Sanskrit: Learning to Read the Vedic Literature to Enliven the Language of Nature Within (Prerequisite: MVS 525)

MVS 527 Advanced Sanskrit: Letting Your Awareness Flow in the Sequence of Vedic Sounds, the Language of Nature (Prerequisite: MVS 526)
These courses introduce the proper pronunciation and reading of classical Sanskrit — the language of the Vedic Literature. Students study Maharishi’s explanation of the role of Sanskrit as the language of Nature in his Vedic Science. (variable units, may be repeated)
MVS 530 Readings in Vedic Literature: Accelerate Growth to Enlightenment
In this course students read texts of Vedic Literature for the sound value, enjoying the benefits in consciousness and in physiology. Texts include the Bhagavad-Gita, Ramayana, and selected Upanishads. (variable units, may be repeated)

MVS 531 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 532 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II
Course description in “Special Maharishi Vedic Science Studies” at end of this section.

MVS 534 Readings in Vedic Literature
In this course, students will read the Vedic Literature in the original Devanagari script. They will keep a journal of their experiences while reading and during the day. This course includes the option for extended practice of the Transcendental Meditation and TM-Sidhi programs. (variable units, may be repeated)

MVS 539 Maharishi Gandharva Veda Musicianship: Developing the Silent Connection between the Song of Individual Life and the Song of Creation
What is beauty? Can musical talent be developed? Can we learn to perform without stage fright? These are some of the fundamental questions explored in this course—both theoretically and through practical experience. Students hear a colorful palette of Maharishi Gandharva Veda ragas as well as music from other cultures and time periods, to gain appreciation of the subtle, underlying principles of perception and aesthetics that govern ragas—and all music. Includes instruction in either bamboo flute, tabla, sitar, or voice, according to availability. (2-4 units)

MVS 540 Principles of Maharishi Vedic Science: The Self-Referral Dynamics of Consciousness
Discover the fabrics of immortality in your own physiology. Topics include the self-interacting dynamics of consciousness, the Constitution of the Universe, the forty aspects of the Veda and Vedic Literature, Maharishi’s Apaurusheya Bhashya, Rik Veda — the Constitution of the Universe, and Vedic Devata in the human physiology. (2-4 units)

MVS 544 Physics of Invincibility
The Constitution of the Universe is the most fundamental level of Natural Law, underlying the whole universe — manifest and unmanifest — and its holistic value is available in the Samhita of Rik Veda. The self-referral dynamics of its sequential unfoldment is a process of symmetry breaking, recently glimpsed by contemporary unified quantum field theory. This course will show how the historical development of the unified quantum field theory has been intimately concerned with resolving the apparent opposition between observer and observed. In this context, the student can
readily understand how Maharishi Vedic Science completes and enriches the most sophisticated discoveries of advanced physics. (2–43 units)

MVS 548 Academic Writing: Harnessing the Deepest Level of Language to Express Total Knowledge
This course is structured to develop and refine students’ writing abilities through repeated rewriting of extended versions of their class papers. (variable units, may be repeated)

MVS 552 Developing Brahman Consciousness: Growing toward the Supreme Pinnacle of Human Evolution — All Experience Unified in the Self
This course covers Maharishi’s precise description of higher states of consciousness that arise naturally and spontaneously through practice of the Transcendental Meditation and TM-Sidhi programs. Personal experience, scientific research, and the record of ancient Vedic texts are used to understand higher states of consciousness. (2–4 units)

MVS 553 Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World — Physiology Is Consciousness
Enjoy Maharishi’s unique insights into the structuring dynamics of the Vedic Literature as presented in the six Vedanga; and the criteria and methods of gaining accurate, complete and reliable knowledge, both intellectually and experientially as revealed by the six Upangas. This course illuminates the path to enlightenment and leads to an increasingly refined understanding and experience of the ultimate nature of reality. (2–4 units)

MVS 555 Ideal Administration: Alliance with Nature’s Government
This course will examine the methodology of creating a permanent state of world peace. Topics will include: the structure and function of the total potential of Natural Law — the Government of Nature; the significance of Collective Consciousness and its effect on government; the Global Country of World Peace; and, scientific research on Vedic technologies that align individual and national awareness with the infinite intelligence and creative power of Nature’s Government, which administers the universe with perfect order. (3–4 units)

MVS 562 Health Benefits of Maharishi Gandharva Veda
Exploratory research indicates that the effects of listening to Maharishi Gandharva Veda music include an increase in brain wave coherence, more integrated behavior, and a tendency of mental activity to settle down and experience finer states of awareness. This course presents an overview of current research, while giving students the opportunity to study this music and explore their own responses to it. Included is instruction in at least one of the following: bamboo flute, tabla, sitar, or voice. (2-4 units, may be repeated)
Prerequisite: MVS 340 or consent of instructor

MVS 563 Maharishi Vedic Science, Sound, and Gandharva Music: Locating the Source of Gandharva Veda in the Self-Interacting Dynamics of Consciousness
Music has a powerful impact on human awareness. This course presents the profound correlation between sound, music, and consciousness. Special emphasis is given to the
Shruti aspect of the Veda as the most coherent and primordial sound value in creation, and the mechanics of consciousness manifesting as sound and transforming into matter. Students also read the Sanskrit texts on music from the classical Vedic Literature, for the benefit of the sounds of the Vedic language. Included is instruction in at least one of the following: bamboo flute, tabla, sitar, or voice. (2-4 units, may be repeated) Prerequisite: MVS 340 or consent of instructor

**MVS 564 Maharishi Gandharva Veda Ear Training: Culturing Refinement of Hearing from the Level of Pure Awareness at the Basis of Sensory Perception**
Awareness of pitch and tuning, vocal training, rhythm, and studying the ten basic scales in Maharishi Gandharva Veda are the main aspects of this course. Elementary keyboards skills are taught to help support pitch identification. Includes instruction in bamboo flute, tabla, sitar, or voice, according to availability. (2 units) Prerequisite: MVS 340

**MVS 565 Melody in Maharishi Gandharva Veda**
The goal of this course is to study the uniquely sequential unfoldment of tones in a raga, and how these tones give rise to melody. Topics include musical form, composition, interpretation, improvisation, embellishment, and cognition. Raga melodies are compared to melodic development in other musical styles, while students enhance their sense of musical direction and balance. Included is instruction in at least one of the following: bamboo flute, tabla, sitar, or voice. (2-4 units, may be repeated) Prerequisite: MVS 340 or consent of instructor

**MVS 566 Rhythm in Maharishi Gandharva Veda**
Students become fluent in the 5 major Gandharva rhythmic cycles and their variations and study basic principles of rhythmic improvisation in Maharishi Gandharva Veda music. Rhythm is explored in light of its fascinating correlation with the verses of the Veda and with rhythmic cycles in nature and in life. Included is instruction in at least one of the following: bamboo flute, tabla, sitar, or voice. (2-4 units, may be repeated) Prerequisite: MVS 340 or consent of instructor

**MVS 571 Maharishi Gandharva Veda Music Studio: Perfecting Your Ability to Flow in Silence and Give Expression to the Unexpressed in Sound and Song**
This course is for students who are well on their way to completing the major in Maharishi Vedic Science with emphasis in Maharishi Gandharva Veda music. It is designed to help students focus on specific aspects of musical development under the guidance of the faculty. Included is instruction in at least one of the following: bamboo flute, tabla, sitar, or voice. (2-4 units — may be repeated) Prerequisites: at least three Maharishi Gandharva Veda music courses and consent of instructor

**MVS 572 Maharishi Gandharva Veda Recital Preparation: Preparing the Ground for Enlivening the Flow of Consciousness in Others**
This course gives students the opportunity to polish their performance skills in preparation for a student recital. Practical considerations are also covered, such as advertising, stage preparation, sound checks, etc. Includes instruction in bamboo flute,
tabla, sitar, or voice, according to availability. (2-4 units; may be repeated) Prerequisites: at least three Maharishi Gandharva Veda courses and consent of instructor

MVS 577 Synthesizing the Key Principles from Your Courses
In this course you will identify the key principles from all the courses in your graduate program, place them into the larger framework of your experience, and indicate how they can be applied to your daily life. This course enables you to summarize the knowledge and experience you have gained from the program. (2–4 units)

MVS 580 Practicum in Maharishi Vedic Technologies: Bringing Health and Wholeness to the Community
Students expand and apply their growing knowledge of Maharishi Vedic Science by functioning as professional technicians delivering such programs as the Maharishi Vedic Approach to Health preventive health and rejuvenation programs. (variable units, may be repeated)

MVS 581 Practicum in Consciousness-Based Education: Structuring Knowledge in the Consciousness of the Student
Students expand, express and apply their growing knowledge of Maharishi Vedic Science by functioning as professional exponents of Consciousness-Based education, the educational system based on Maharishi Vedic Science. (variable units, may be repeated)

MVS 585 Capstone — Celebrating Perfection in Education: Synthesizing Your Year of Study and Inner Growth and Preparing for the Future
In this course your growth to higher states of consciousness is celebrated in waves upon waves of fulfilling knowledge and blissful experience. This course presents Maharishi’s synthesis of all aspects of Vedic knowledge in Unity Consciousness, Vedanta. (2–4 units)

MVS 588 Presentations to All Levels of Society: Knowledge Becomes Knowledge When Applied in Action
This course gives students the opportunity to integrate knowledge gained in the program by making presentations on Maharishi Vedic Science in different areas of society. Areas may include business, education, health, government, defense, rehabilitation, or agriculture. Students present a written report on their project. (variable units) Prerequisite: consent of the Department faculty and the Academic Standards Committee

MVS 591 Writing Skills: Generating the Perfect Flow of Speech to Express Total Knowledge
Students enhance the skills needed to write about the Science of Creative Intelligence and Maharishi Vedic Science on a graduate level. This course is especially helpful for non-native speakers of English. (variable units, may be repeated)

MVS 597 Topics in Maharishi Vedic Science: Investigating the Infinity of Points within Wholeness
Students explore topics in Maharishi Vedic Science under the guidance of University faculty and eminent Vedic scholars. Topics may include the Maharishi Jyotish program,
the Maharishi Vedic Approach to Health program, Vedic Engineering, and Maharishi Gandharva Veda music. (variable units, may be repeated)

MVS 599 Directed Study
(variable units) Prerequisite: consent of the Department faculty

MVS 601 Special Topics 1
MVS 602 Special Topics 2
MVS 603 Special Topics 3
MVS 604 Special Topics 4
These courses allow students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of these courses will vary depending on the needs of the students, the research interests of the available faculty, and the latest developments in Maharishi’s presentations of Maharishi Vedic Science. In all cases the courses will feature in-depth study of books by Maharishi.) (variable units)

MVS 605: Seminar on Philosophy of Science and Scientific Research on Maharishi's Technologies of Consciousness
In this seminar students study and evaluate the main contemporary approaches to the principles, methods, and applications of modern science and discuss the contributions of Maharishi Vedic Science to solving outstanding issues in philosophy of science. They then apply the integrated standards of Maharishi Vedic Science and modern science to the main avenues of research on the technologies of Maharishi Vedic Science, including those in which they will be doing their dissertation research projects. They also practice communicating these outcomes in a manner that would be comprehensible to scholars at any university in the world. (variable units)

MVS 611 Research Methods: Learning the Self-Referral, Self-Correcting Nature of Science
Students survey basic approaches to research such as quantitative, qualitative, historical, clinical, and philosophical methods of analysis. Topics include logical and practical considerations in experimental design and measurement, writing literature reviews, and selecting research topics, as well as research ethics and such non-experimental methods as computer simulation, textual analysis, and survey research. (variable units)

MVS 612 Research Principles, Logic, and Methods — Theory and Application
These courses introduce the principles and logic of scientific investigation and review the skills necessary for evaluating and undertaking scientific research. Topics include principles and methods of experimental designs and review of non-experimental methods such as textual analysis and case studies. These principles will be understood in practical contexts such as research in consciousness through the Transcendental Meditation and TM-Sidhi programs and the reading of Vedic Literature. (variable units)
MVS 616 Statistics: Locate the Patterns Underlying Diversity
This course focuses on the use of statistics in the social sciences, especially as they relate to the growth of consciousness on individual and collective levels. Topics include: descriptive statistics, hypothesis testing and inference, regression techniques, analysis of variance, and non-parametric statistics. (variable units)

MVS 618 Scientific Research on the Technologies of Maharishi Vedic Science: Identifying Reliable Knowledge through Repeatable Research
This course will review research on the technologies of Maharishi Vedic Science, including key studies in the six-volume series of Collected Papers on the Transcendental Meditation and TM-Sidhi Program as well as more recent studies. The course will focus on the evaluation of the studies in light of research design considerations as well as the development of the ability to describe and answer questions about key studies. (variable units)

MVS 621 Specialized Research Paper: Testing and Validating Models in Maharishi Vedic Science
In this course students gain experience in conducting research and writing a publishable paper investigating models in Maharishi Vedic Science. The final paper should be of suitable scientific quality that it could be submitted for publication in a peer-reviewed journal. (variable units)

MVS 630 Readings in Vedic Literature: Accelerate Growth to Enlightenment
In this course students read texts of Vedic Literature for the sound value, enjoying the benefits in consciousness and in physiology. Texts include the Bhagavad-Gita, Ramayana, and selected Upanishads. (variable units, may be repeated)

MVS 635 The Discovery of Veda and Vedic Literature in Human Physiology: The Individual Is Cosmic
This course studies the historic discovery of the Veda and Vedic Literature in human physiology, brought to light by Dr. Tony Nader under the guidance of Maharishi. Students learn:
• how the intelligence of Nature, as expressed in the Veda and Vedic Literature, forms the basis of the structure and function of the physiology, and
• how human physiology forms a perfect replica of Nature’s intelligence, the Constitution of the Universe.
This knowledge, together with the technologies that arise from it, represents the complete knowledge of perfect health — and the key to perfection in every area of life. (variable units)

MVS 670 Advanced Analysis and Synthesis of Total Knowledge
In this course, you will master the Self-referral dynamics of pure consciousness in terms of the structure and function of the Samhita of Rishi, Devata and Chhandas; Rik and Ak; Aknim Ile; the Richo Ak-kshare verse of Rik Veda; the dynamics of the Gap; Maharishi’s Apaurusheya Bhashya; the relationship between name and form in the Veda; the four
Vedas; and the relationship between the silent dynamics of consciousness and the Unified Field of quantum field theory. (8 units)

MVS 671 Maharishi’s Insight into the Veda and Vedic Literature: Fabrics of Immortality
In this course you will study Maharishi’s insights into the forty branches of the Veda and Vedic Literature. You will see videotapes that Maharishi has made on the Vedic Literature, including the Vedas, Vedangas, Upangas, Upavedas, Brahmanas, and Pratishakhyas. You will learn many of the Vedic Expressions that Maharishi has taught from the Vedic Literature, and you will read the Vedic Literature in Sanskrit, creating profound brain coherence. Most of all, you will enjoy deep rest and an ideal daily routine, leading quickly toward enlightened awareness and holistic functioning of the physiology. (variable units)

MVS 672 Mastering Veda and Vedic Literature in the Human Physiology
Explore through subjective and objective means of gaining knowledge Raja Raam’s connections between the structuring dynamics of the Vedic Literature and the human physiology. This course gives the student the reality that they are Cosmic and leads to an increasingly refined understanding and experience of the ultimate nature of reality. (variable units)

MVS 673 Original Research in EEG, Brain and Enlightenment
Brain functioning underlies conscious processing, states of consciousness, and enlightenment. You will learn how to record EEG (brain waves) and other physiological measures (breath rate, heart rate, and skin conductance), will learn the brain signatures of the practice of the Transcendental Meditation technique and of higher states of consciousness, and will conduct original research testing a research question that you generate during the course. (variable units)

MVS 674 Peace-Creating Professionals: Applying Maharishi Vedic Science to Society
You will learn how to create professional presentations and structure lectures that effectively demonstrate the applied value of Maharishi Vedic Science to solve individual, national and global problems. You will create presentations that will include research on current issues in governmental administration; finance and industry; economic inequities; education; physical, mental and societal health; crime and rehabilitation; agriculture; city planning; science and technology; homeland security; ethnic and religious tensions; international relations and the need for permanent world peace. (variable units)

MVS 675 Universal Principles of Life Expressed in Maharishi Vedic Science, Judaism, Christianity, and Islam.
This course provides an advanced analysis and synthesis of core principles of Maharishi Vedic Science, as they are reflected and expressed in the Scriptures, writings, and experiences of saints of the religious traditions of Judaism, Christianity and Islam. The underlying unity of both theology and spiritual experiences are explored in the context of
the diverse and culturally specific values of expression represented in each of these traditions. (variable units)

MVS 680 Maharishi Vedic Science Seminar: Enlivening the Collective Understanding of Concepts in Maharishi Vedic Science
The Maharishi Vedic Science graduate seminar includes a review of current research topics in the major disciplines and their relationship to the principles of Maharishi Vedic Science. Each session focuses on a particular discipline and its relationship to Maharishi Vedic Science and is led by senior graduate faculty. (Track I students take 1 unit per semester; Track II students take 0.5 units per semester.) (0.5–1 unit — repeated each semester)

MVS 682 Advanced Practicum in Consciousness-Based Education: Structuring Knowledge in the Consciousness of the Student
This course gives students the opportunity to integrate research skills and teaching skills by assisting the faculty in teaching a Forest Academy — a two-week period of study of particular themes of MVS and Vedic Science. As an alternate fieldwork project, students may arrange, prepare, and give a series of presentations in at least two applied fields, such as education, government, business, rehabilitation, and the health professions. (2 units — may be repeated)

MVS 691 Preparation for Qualifying Examination: Preparing a Fertile Ground for Demonstration of the Knowledge You Have Gained
This course provides the time necessary to prepare for the qualifying examination, which demonstrates research competence. It may be in the form of a research proposal, or in another form at the discretion of the program faculty. (variable units — may be repeated) Prerequisite: successful completion of the core curriculum

MVS 693 Faculty Development Seminar and Oral Qualifying Exam (variable units)

MVS 695 Faculty Development Seminar (variable units)

MVS 698 Directed Research: Investigating the Laws of Nature Responsible for Life Around Us
(variable units) Prerequisite: consent of the Department faculty and the Academic Standards Committee

MVS 699 Directed Study: Investigation into Fundamental Principles in Nature
(variable units) Prerequisite: consent of the Department faculty

MVS 700 Preparation of Dissertation Proposal: Structuring the Foundation of Your Dissertation Research
Having passed to doctoral candidacy, students prepare a proposal for a doctoral dissertation for acceptance by their major professor and dissertation guidance committee. (variable units, may be repeated) Prerequisites: Ph.D. candidate status and consent of the dissertation advisor
MVS 701 Dissertation Research: Scholarly Investigation into Models in Maharishi Vedic Science
Students conduct original research and prepare their dissertations during their third and fourth years in the program. (0.5–2.5 units — may be repeated each semester)
Prerequisites: approval of the dissertation proposal and consent of the dissertation committee

Forest Academy Courses

General University Requirement
All students are required to take a Forest Academy in each semester they are enrolled in at least four blocks of classes.

Undergraduate Requirement
In the first semester, students take the Science of Creative Intelligence (FOR 100) as a prerequisite to all subsequent course work at the University. This course takes the place of a Forest Academy in that semester. In all other semesters, students take the Forest Academy of their choice from those being offered at that time. To graduate with a bachelor’s or associate’s degree a student must successfully complete one Forest Academy for each semester enrolled. One Forest Academy can be waived for students who are enrolled in degree programs of three or more semesters. For certificate programs, this requirement varies — please consult the certificate program listing in this catalog for details.

Graduate Requirement
In the first semester, students take the Science of Creative Intelligence (FOR 500). This course is a prerequisite to all subsequent course work at the University. To graduate with a master’s or doctoral degree, a student must successfully complete one Forest Academy for each semester enrolled, including FOR 500. One elective Forest Academy may be waived for students who are enrolled in degree programs of three or more semesters.

NOTE: Students in some nonstandard graduate programs may have different Forest Academy requirements. Any deviation from the general requirement is listed with the individual program’s degree requirements.

COURSE DESCRIPITIONS

FOR 100 Science of Creative Intelligence: Understanding and Experience of the Source, Course, and Goal of Creative Intelligence in Your Own Pure Consciousness as the Basis of All Knowledge and Success in Life
In recent years there has been a cry for a unified framework for human knowledge. The Science of Creative Intelligence (SCI) is a new science, founded by Maharishi in 1970 to meet this need.
In other sciences, you study the physical, chemical, or biological fields of Nature’s intelligence. In the Science of Creative Intelligence, students study the structure of the field of pure intelligence, from which all fields of knowledge arise. Only from this most fundamental level can knowledge be unified. This course examines how the creative intelligence displayed in every grain of creation arises in a systematic and sequential fashion from within that one basic universal field. Students also examine how one can access and use that universal field of intelligence to bring fulfillment to life and to life on Earth.

In 1972, Maharishi laid out the main principles of this new science in a 33-lesson, videotaped course. He integrated the understanding of Nature’s intelligence provided by modern science (through its objective approach) and by ancient Vedic Science (which utilizes both objective and subjective approaches to gaining knowledge).

Like all sciences, the Science of Creative Intelligence has an applied and a theoretical aspect. The applied aspect is the Transcendental Meditation program, which provides all human beings with the ability to directly access the field of pure intelligence in the simplest state of their own awareness. Students not yet instructed in the Transcendental Meditation program learn this simple, effortless technique as part of the SCI course. Through regular practice of the Transcendental Meditation technique, students begin to utilize the unlimited potential of their own creative intelligence. SCI has profound practical applications — in education, health, government, economics, and rehabilitation. Scientific research has demonstrated its ability to solve problems in all areas of individual and collective life — opening the door to an ideal life for humanity. (4–6 units) This course is a prerequisite for all other courses taken at the University.

FOR 101 Science and Technology of Consciousness
The students begin their study with The Science and Technology of Consciousness. This course explores the full range of consciousness, which is the basis of all courses at Maharishi University of Management. Consciousness is defined differently at Maharishi University of Management than it is usually defined at other universities. Here consciousness is understood as having a universal and individual value. The purpose of this course is to understand the full range of consciousness; what it practically means to students; and how the experience of consciousness can help each student to become the person he or she wishes to be. (4–6 units)

FOR 102 Advanced Seminar: Science and Technology of Consciousness.
In this seminar students will select a fundamental principle, concept or theme from Maharishi Vedic Science, research it, and lead the class discussion on their topic. This course will include extensive reading of the Vedic Literature, discussion of advanced concepts from selected readings and videotapes, and extended research in Consciousness for deeper experiences. (4–6 units)
FOR 103 Health-Related Fitness: Physical Activity to Promote Longevity and Fitness for Life
This course presents the latest knowledge from Western science and the Maharishi Consciousness-Based Health Care program concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. The major focus will be on the details of the ideal routine of sleep, diet, exercise, meaningful activity, recreation and the importance of the regular experience of pure consciousness for optimum health and evolution. This course will combine both lectures and physical activity labs. (2 credit hours) Prerequisite: FOR 101

FOR 399 Directed Study
(variable units) Prerequisite: consent of the Department faculty

FOR 410 Discovery of the Veda and Vedic Literature in Human Physiology: Discovering the Laws of Nature in the Structure and Function of Your Own Physiology
This course introduces the Maharishi Vedic Science understanding of the Veda and Vedic Literature as the underlying intelligence that structures the universe, including our mind and body. Based on this understanding, students explore the historic discovery of Veda and Vedic Literature in the human physiology, brought to light by Dr. Tony Nader under the guidance of Maharishi. (2 units) Prerequisite for undergraduates: FOR 103

FOR 411 Consciousness and the Vedic Literature in Maharishi Vedic Science: How the Self Interacts with Itself to Create the Veda, the Laws of Nature Structuring the Universe
This course introduces, through Maharishi’s videotaped lectures and writings, the understanding of how the self-interacting dynamics of consciousness is the Veda and Vedic Literature, the total potential of Natural Law that gives rise to the universe. (2 units) Prerequisite for undergraduates: FOR 103

FOR 422 Human Relations: Creating from any Group a Harmony of Differences
This Forest Academy explores one of the deepest aspirations of all civilized societies: to be a togetherness of differences. Special attention is given in the course to the school as a microcosm of the larger society, and to American society as a reflection of all modern societies. Students learn various team-building and tolerance-developing strategies that use the differences in any group and strengthen its harmony. They also study the application of Maharishi’s technologies for the development of individual and group consciousness to the development of group coherence. (2 units) Prerequisite for undergraduates: FOR 103

FOR 424 Professional Success: Skills in Action
The goal of this course is to familiarize students with soft skills, intra-personal and interpersonal, which determine a person's ability to excel or at least fit in a particular social structure, such as a project team or a company. These skills include competencies in areas such as communication, personal-habits, time-management, personal relations, etiquette, self-motivation, self-discipline, persuasion, etc. Furthermore, students will
understand cultural orientation of the USA i.e., how people in the USA will speak, act, negotiate and make decisions. Furthermore, students will learn how these skills arise from their common source in the eternal laws of nature as explained by the Science of Creative Intelligence.

FOR 428 Creating Peace: Enlivening the Orderliness and Peace of the Unified Field to Create Permanent World Peace
Through tapes, guest lectures, readings, and discussions, the class will explore the deepest questions about creating sustainable world peace. The course reflects on how Maharishi’s Vedic knowledge and technologies for developing individual and societal coherence and harmony support and accelerate our own evolution and the initiatives of others desiring to create peace in the world today. (2 units) Prerequisite for undergraduates: FOR 103

FOR 429 Maharishi’s Principles of Success: Developing Purity of Consciousness and Aligning Behavior with Natural Law as the Foundation of Success in Every Area of Life
Success in life is based on profound knowledge that guides action to produce the desired achievement to bring fulfillment. This course explores key themes of knowledge that highlight the contributions of Maharishi Vedic Science and Technology to individual and professional success and fulfillment in life. (2 units) Prerequisite for undergraduates: FOR 103

FOR 430 Topics in Maharishi Vedic Science
This course presents the knowledge in Maharishi Vedic Science, as formulated by its Founder, His Holiness Maharishi Mahesh Yogi, and as applied to all streams of knowledge by the University faculty. (2 units — may be repeated) Prerequisite: consent of the Department faculty Prerequisite for undergraduates: FOR 103

FOR 432 The Philosophy of Action: Transcending the Field of Activity as the Basis for Right Action and Fulfillment in Life
This course investigates the explanation in Maharishi Vedic Science of the role of action in the development of higher states of consciousness and how action performed from the level of pure consciousness spontaneously gains the support of all the Laws of Nature for maximum success. (2 units) Prerequisite for undergraduates: FOR 103

FOR 433 Consciousness and Physiology: Understanding Human Physiology as an Expression of the Same Laws of Nature That Structure Your Consciousness
This course reviews how consciousness gives rise to different constituents of the physiology, and examines the foundational principles of Maharishi Vedic Science that give rise to the Maharishi Vedic Approach to Health and the discovery of the Veda and Vedic Literature in human physiology. (2 units) Prerequisite for undergraduates: FOR 103
FOR 434 The Creative Process: Tracing Human Creativity to the Infinite Creativity of Natural Law — Developing the Unbounded Source of Your Own Creativity
From the standpoint of the Maharishi Science of Creative Intelligence℠ program, creativity expresses the fundamental characteristic of Nature itself — to expand through the process of evolution and find full expression. In this course, students explore the full range of creativity, from the creative dynamics within the pure, self-referral level of consciousness, through self-expression in the arts and other fields, and culminating in Self-expression in unity consciousness. This rich and stimulating course, developed by faculty in the Departments of Fine Arts and Literature, includes beautiful tapes of Maharishi speaking on the creative process and a wide range of other creative activities. (2 units) Prerequisite for undergraduates: FOR 103

FOR 435 The Vedic Literature: Experiencing the Laws of Nature That Create Both You and the Universe
This course reviews the mechanics, detailed in Maharishi Vedic Science, by which pure knowledge unfolds from the self-interacting dynamics of consciousness in the impulses of Natural Law reflected in the structure of the Vedic Literature: the Samhita, Brahmaṇa, Vedanga, Upanga, Itihasa, Purana, Smriti, and Upaveda. (2 units) Prerequisite for undergraduates: FOR 103

FOR 436 Collective Consciousness and World Peace: How Maharishi Technologies of Consciousness Can Create Peace for the World Family
This course explores the principles and dynamics of collective consciousness and introduces the evidence verifying beneficial changes in individual and social life produced by the group practice of the Transcendental Meditation and TM-Sidhi programs. (2 units) Prerequisite for undergraduates: FOR 103

FOR 437 Becoming a Leader: Strengthening Your Relationship with Your Self to Rise to True Leadership
Delving into Maharishi’s knowledge of leadership, students hear leaders interpret their leadership experiences, and leadership consultants speak on the success of Consciousness-Based leadership. Students examine their own experiences of leadership and discover the principles of consciousness at work in those experiences. They also consider how to apply this knowledge of leadership in their future career. (2 units) Prerequisite for undergraduates: FOR 103

FOR 438 Ideal Relationships: Improving Your Relationships by Exploring the Principles of Natural Law That Operate in All Relationships
We live our lives in relationships, beginning with our mother, father, and family, expanding to our friends, spouse, and children, our business associates, our fellow citizens, and on to all the people of the world. Handling these relationships with wisdom, appropriateness, and love is central to our good fortune. The Science of Creative Intelligence and Maharishi Vedic Science provide insights into how all relationships have their source in the self-referral dynamics of consciousness, our own Self — and guidelines for ensuring that our relationships are in accord with the natural evolution of life in accord with Natural Law. The course features tapes of Maharishi, guest
presentations, group projects, and practical knowledge of etiquette. (2 units) Prerequisite for undergraduates: FOR 103

FOR 439 The Bhagavad-Gita: Appreciating the Textbook of the Age of Enlightenment
In this course students experience the practical and universal nature of knowledge expressed in the Bhagavad-Gita, the central work of the Vedic Literature. During the course, students:
• read all 18 chapters aloud,
• hear Vedic Pandits recite the Bhagavad-Gita in Sanskrit,
• begin learning the Bhagavad-Gita in Sanskrit, and
• read all the verses of the first six chapters and highlights from Maharishi’s commentary. Students choose a special theme and trace it through the text, and express understanding of the Bhagavad-Gita through art, music, literature, drama, and games. (2 units) Prerequisite for undergraduates: FOR 103

FOR 440 Introduction to Sanskrit: Learning the Language of Nature
Maharishi has said that learning Sanskrit is absolutely essential for our evolution. Reading the Vedic Literature in Sanskrit, he explains, produces a distinct physiological effect, making brain functioning more orderly. Besides watching and discussing tapes of Maharishi on Sanskrit, students learn to pronounce the Sanskrit alphabet, learn to write and recognize letters in the Devanagari script, recite from the Bhagavad-Gita in Sanskrit, and learn Sanskrit quotations that Maharishi has emphasized over the years. (2 units) Prerequisite for undergraduates: FOR 103

FOR 441 Yogic Flying: From Heightened EEG Coherence to Heaven on Earth
Maharishi has brought to light powerful technologies for developing the unbounded potential of human consciousness and creating an ideal society. By far the most powerful of these is Yogic Flying, which induces maximum coherence in brain functioning, creates an upsurge in coherence throughout the collective consciousness of society, and brings life into harmony with Natural Law. In this course, students focus on the mechanics of Yogic Flying — how it works and how it produces such remarkable effects. In particular, students prepare to give Yogic Flying demonstrations. They prepare short presentations as a group, and in the second week of the course go to another school, college, or university and give a Yogic Flying demonstration. (2 units — may be repeated) Prerequisite for undergraduates: FOR 103

FOR 442 Maharishi Self-Pulse Assessment: The Touch of Three Fingers on the Pulse — Finding and Correcting Imbalance and Creating Health
Maharishi has encouraged every individual to learn the Maharishi Self-PulseSM program as a technology for structuring more ideal health for themselves and their entire family. This course is the most comprehensive course offered to date. During the course the following topics are discussed:
• How the intelligence within the physiology is reflected in the pulse
• Feeling the influence of cosmic cycles in the pulse
• Feeling imbalances in the pulse
• The stages of imbalance
• Causes and effects of imbalance
• How the body’s inner intelligence protects against imbalance
• Restoring and maintaining balance through proper diet and through daily and seasonal routine. (2 units) Prerequisite for undergraduates: FOR 103

FOR 445 Maharishi Consciousness-Based Health Care: Creating Perfect Health by Understanding the Human Physiology as the Expression of Veda and Vedic Literature
This course presents the wholeness of the Maharishi Vedic Approach to Health, which is rooted in the historic discovery of the Veda and Vedic Literature in human physiology, brought to light by Dr. Tony Nader under the guidance of Maharishi. Students learn:
• how the intelligence of Nature, as expressed in the Veda and Vedic Literature, forms the basis of the structure and function of the physiology, and
• how human physiology forms a perfect replica of Nature’s intelligence, the Constitution of the Universe.
This knowledge, together with the technologies that arise from it, represents the complete knowledge of perfect health — and the key to perfection in every area of life. (2 units) Prerequisite for undergraduates: FOR 103

FOR 446 Nobel Laureates
In this course, students hear presentations from a range of faculty on the latest and most exciting discoveries in each of their fields — discoveries that either have won a Nobel Prize or are worthy of one. Students learn more about the discovery process by exploring, with leading University faculty, the cutting edge of knowledge and the people behind it in a variety of disciplines ranging from physics to the visual arts. Students’ own self-referral creative process will be enlivened through multimedia presentations, lively discussions, readings, and creative exercises. (2 units) Prerequisite for undergraduates: FOR 103

FOR 447 Raja Raam Award — Preparatory Course: Discovering the Structure and Function of Veda and Vedic Literature in Your Major Field of Study
The University faculty have established a special award, the Raja Raam Award, which will go to the graduating senior who: 1) has most profoundly integrated the 40 qualities of the Veda and Vedic Literature with his or her discipline, and 2) submits an undergraduate portfolio of the highest quality. During this course, seniors prepare their portfolios to be submitted for this award. They begin this process with a review of Dr. Nader’s work on the 40 aspects of the Vedic Literature and their correspondence in the human physiology. Based on this review, students write a summary of how these aspects can be connected to their academic discipline. (2 units) Prerequisite: consent of instructor

FOR 448 Enlightened Entertainment: How Entertainment Can Serve as a Powerful Means of Developing Consciousness
In this course students explore the nature and purpose of entertainment and its relationship to Maharishi Vedic Science. Students take lessons in Maharishi Gandharva Veda music and study Maharishi’s principles of ideal entertainment. As part of the
course, workshops are presented by guest entertainers during which students create their own enlightened entertainment. (2 units) Prerequisite for undergraduates: FOR 103

FOR 450 Maharishi’s Recent Writings: Studying the Words of an Enlightened Teacher to Promote Your Own Enlightenment
This course gives students the opportunity to deeply study recent writings from Maharishi under the guidance of University faculty, and to research key themes from these writings in related videotapes and lectures. Possible texts include: Celebrating Perfection in Education, Maharishi’s Absolute Theory of Defense, or Maharishi Vedic University: Introduction. (2 units — may be repeated) Prerequisite for undergraduates: FOR 103

FOR 452 Maharishi Gandharva Veda Music: Expressing the Eternal Harmonies of Nature
Maharishi Gandharva Veda music is the ancient knowledge of the music of Nature that creates balance and harmony in the musician, the audience, and the whole environment. This introductory course enlightens students in the theory of this knowledge, and includes instruction in sitar, tabla, bamboo flute, or voice. (2 units) Prerequisite for undergraduates: FOR 103

FOR 454 Yoga Sutra: Textbook for the Science and Technologies of Consciousness
In this Forest Academy, students will read the Yoga Sutra in Sanskrit and in English, and will learn Vedic expressions from the Yoga Sutra emphasized by Maharishi. Students will view tapes by Maharishi on Yoga and the Yoga Sutra. Students will have the opportunity to round for the entire two weeks. (2 units) (may be repeated for credit) Prerequisite for undergraduates: FOR 103

FOR 456 Prevention
This course offers a holistic, prevention-oriented approach to good health that integrates principles from the 40 areas of Veda and Vedic Literature to restore and maintain balanced health in mind, body, behavior, and environment. This course includes specific knowledge of daily and seasonal routines, diet, other health-promoting behavior, and the development of higher states of consciousness, all of which bring life into harmony with Natural Law. (variable units) Prerequisite for undergraduates: FOR 103

FOR 457 Diet and Digestion
This course provides profound principles and practical knowledge of how to promote good health through proper diet, digestion, and nutrition. Topics of this course include factors to consider in dietetics; the physiology of digestion and metabolism; balance and imbalance of digestion and metabolism, and their correction; the influence of mind, senses, emotions, and behavior on digestion; and the relationship of diet and digestion to the development of higher states of consciousness. (variable units) Prerequisite for undergraduates: FOR 103
FOR 460 Ideal Daily Routine: Aligning Our Actions with the Cycles of Nature’s Intelligence to Promote Growth to Higher States of Consciousness
This course presents the knowledge from the Maharishi Vedic Approach to Health concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. Topics include the effects of sleep and the results of sleep deficit, details of the ideal routine of diet and exercise, and the importance of the regular experience of pure consciousness for optimum health and evolution. Prerequisite for undergraduates: FOR 103

FOR 462 Maharishi Yoga Asanas
The goal of this course is to enhance physiological balance and mind-body coordination through simple Maharishi Yoga Asanas program postures and breathing exercises. This course gives a comprehensive understanding of the nature and attainment of Yoga, which is the unification of individual and cosmic life. (variable units) Prerequisite for undergraduates: FOR 103

FOR 463: Ramayana
In this course students will study the Ramayana, one of the great epics of the Vedic Literature. Students will read the Ramayana in Sanskrit and English, and will see videos of the Ramayana created by Ramanand Sagar. Students will see videotapes by Maharishi on topics related to the Ramayana, and will participate in presentations on the Ramayana. (2 units) Prerequisite: instruction in the TM-Sidhi program and for undergraduates FOR 103

FOR 464 The Upangas and the Development of Consciousness: The Growth of Higher States of Consciousness as Described in the Vedic Literature
This course explores the Upangas, the six branches of the Vedic Literature that give the vision of enlightenment and the technologies for the full development of consciousness. In this course the students will read selections from the Upangas in Sanskrit and English; memorize Vedic expressions emphasized by Maharishi from two of the six branches of Upangas, Yoga Sutras, and Brahma Sutras; study lectures by Maharishi on the Upangas; and explore the correlations between the Upangas and human physiology discovered by Professor Tony Nader, M.D., Ph.D. (2 units) Prerequisite for undergraduates: FOR 103

FOR 465 Maharishi’s Absolute Theory of Government: Governing Human Life by the Same Cosmic Principles That Nature Uses to Govern the Ever-Expanding Galactic Universe Without a Problem
This course reviews the fundamental principles of government brought to light in Maharishi’s videotaped lectures and writings. A principal focus of the course will be a close reading of Maharishi’s book, Maharishi’s Absolute Theory of Government: Automation in Administration. A major theme is that every government worthy of the name must have the ability to prevent problems; it emphasizes that this goal is achievable for any government by aligning the constitution of the nation with the Constitution of the Universe, Cosmic Intelligence. Cosmic Intelligence, Maharishi explains, is that absolute intelligence of Natural Law at the source of all the Laws of Nature that governs the entire universe with absolute order and precision. Students also examine Maharishi’s analysis of
how the nature and functioning of government reflect the quality of the collective consciousness of the nation, and how governmental performance can be improved by creating coherence in national consciousness through the Maharishi Technology of ConsciousnessSM. (2 units) Prerequisite for undergraduates: FOR 103

FOR 466 Presenting Consciousness-Based Education: Expressing the Principles of Education for Enlightenment
Students are given the opportunity to discuss, write, and speak publicly about the system of education in which they are learning — Consciousness-Based education. Topics include: historical precursors in the writings of great educators, scientific research, issues of educational reform, and approaches that Maharishi has used to describe it. At the conclusion of the course, students apply their public speaking skills in planning and giving a public lecture on Consciousness-Based education at a local college or high school. (2 units) Prerequisite for undergraduates: FOR 103

FOR 467 Upanishads
In this course students study the Upanishads, one of the most important aspects of the Vedic Literature. Students read the Upanishads in Sanskrit and English, see videotapes by Maharishi on the Upanishads, and learn Vedic expressions from the Upanishads. (2 units) Prerequisite for undergraduates: FOR 103

FOR 469 Maharishi on God and Religion
This two-week course will focus on Maharishi’s knowledge on the nature of God, religion, prayer, ritual, scripture, spiritual development, devotion and service, the relationship between science and religion, right and wrong, the kingdom of God on Earth, and the state of God-realization. The course includes extended group practice of Maharishi Transcendental Meditation and TM-Sidhi programs, including Yogic Flying. Prerequisite for undergraduates: FOR 103

FOR 470 Sustainability and MVS Prerequisite for undergraduates: FOR 103

FOR 472 Vedanta and Quantum Physics
In this forest academy, students will study in detail the parallels between Shankara's Vedanta and quantum physics. Students will read in Sanskrit and in English from the three sources of Vedanta — the Brahma Sutra, Upanishads, and Bhagavad-Gita. In addition, students will view tapes by Maharishi on Vedanta and read selections from his writings on Vedanta. Students will compare the main principles of Vedanta to the principles of quantum physics. Prerequisite for undergraduates: FOR 103

FOR 473 for Parliaments of World Peace
In this forest academy, students will view lectures made by Maharishi in March and April of 2006. This historic set of talks, called the Parliaments of World Peace, offers an opportunity to grasp Maharishi's understanding of many areas of society: agriculture, architecture, health, education, government, management, art, religion, and defense. Prerequisite for undergraduates: FOR 103
FOR 490 World Peace Assembly: Creating World Peace from the Least Excited State of Your Own Consciousness

In this Forest Academy, students participate in a World Peace Assembly that allows them to refine their own consciousness while creating coherence in national consciousness through the Maharishi Technology of Consciousness. (0.5 units — may be repeated)
Prerequisite for undergraduates: FOR 103

FOR 500 The Science of Creative Intelligence: Understanding and Experience of the Source, Course, and Goal of Creative Intelligence in Your Own Pure Consciousness as the Basis of All Knowledge and Success in Life

This is the foundation of our Consciousness-Based education program. The Science of Creative Intelligence has two aspects: (1) the systematic study of the field of pure intelligence, the Unified Field of Natural Law, and the principles by which it governs the coexistence and evolution of all systems in Nature, and (2) the direct experience of this field through the Transcendental Meditation and TM-Sidhi programs. The Science of Creative Intelligence links the deepest understanding about nature found in modern science with the understanding expressed in Maharishi Vedic Science. The Science of Creative Intelligence, founded by Maharishi, is a new discipline that provides systematic knowledge and experience of pure creative intelligence. The Science of Creative Intelligence not only validates the truth of knowledge on the basis of personal experience, but also finds validation in modern empirical research. With their daily enlivenment of consciousness through group practice of the technologies of Maharishi Vedic Science, students grow in the fruit of all knowledge: the ability to know anything, do everything right, and thereby accomplish anything. Therefore, Maharishi Science of Creative Intelligence is the foundation for a universal and complete understanding of the full range of human potential.

Maharishi summarizes the vision opened by his Science of Creative Intelligence as follows: “The Science of Creative Intelligence opens human awareness to the Unified Field of Natural Law. The Unified Field is the common basis of all activity in the universe. The application of this knowledge is in all fields of life, and research properly guided in the field of the Science of Creative Intelligence will revolutionize all fields of life and living in the world. It will bring life in accordance with Natural Law. That means life spontaneously in the evolutionary direction that is the basis of all success and progress in any country. The Science of Creative Intelligence introduced in education has a future for creating Heaven on Earth — life in the fullness of bliss and daily living without stress and suffering.”
This videotaped 33-lesson course includes discussion of the nature and range of creative intelligence, the qualities it displays, its principles, its expression in the life of the individual, and its application in the life of society to uplift human civilization to its highest level. (4 units) This course is a prerequisite for all other courses taken at the University.
FOR 510 Maharishi's Absolute Theory of Management, Wholeness on the Move
This course explores various topics in Maharishi's Absolute Theory of Management. Students learn that every manager can harness the organizing power of nature and spontaneously act in accord with Natural Law through the practice of Maharishi's TM and TM Sidhi program. Nature always takes the path of least resistance, managers can learn to do less and accomplish more as they develop their consciousness and become more in tune with the managing power of nature. (1–4 units) This course may be repeated with different topics.

FOR 598 Faculty Development Seminar for Graduate Students: Mastering the Techniques of Consciousness-Based Education to Deliver Education for Enlightenment
This course prepares doctoral candidates to be competent college teachers and writers in their professions. Topics include lecturing skills, making instructional charts, designing learning activities, writing for general and professional readers, and evaluating one’s own and others’ teaching and writing. During the course students design and teach lessons, analyze examples of writing, write a short research paper or article, and understand their field of study in the context of interdisciplinary studies through their teaching and writing. (2 units) Prerequisite: consent of instructor

FOR 700 Vedic Science Research: Using Maharishi Vedic Science to Illustrate Fundamental Principles in Dissertations
This course provides an opportunity for Ph.D. students to investigate the relation of Maharishi Vedic Science to their dissertations. What students produce in the course forms the seeds for sections in their final dissertations. During this course, students create a Unified Field Chart and a Richo Akshare line for their dissertation, refine their ability to write about Maharishi Vedic Science, and enjoy a lively interchange with fellow Ph.D. students from all departments in the University. (2 units, may be repeated) Prerequisite: Students must be in a doctoral program and have completed their Qualifying Exam.

Research in Consciousness (RC)

Introduction

At Maharishi University of Management, students cultivate the total potential of their brain physiology and help create invincibility and peace through the twice-daily practice of the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying.

The Transcendental Meditation program is practiced by all students as part of their required Research in Consciousness courses. Many students also learn the advanced TM-Sidhi program, including Yogic Flying, and practice this as part of their Research in Consciousness program. For the personal benefit of all students, faculty, and staff there are specific policies that support the practice of the Transcendental Meditation and TM-Sidhi programs. Each element of these technologies for the development of
consciousness has been carefully structured to produce maximum benefit. In order to ensure for everyone the integrity and effectiveness of the teaching and practice of the technologies of Maharishi Vedic Science, these technologies are practiced according to the instruction of qualified teachers, recognized by Maharishi University of Management, and they are practiced exclusive of other programs and procedures.

This twice-daily practice has been incorporated into the curriculum as the “Research in Consciousness” (RC) course. Along with University faculty, staff, and community members, students come together for group practice in the Golden Domes of Pure Knowledge and other meditation halls.

All students are automatically enrolled in this course and receive academic credit toward graduation requirements (1 unit per block). The grade for the course is based on daily attendance at group program and Yogic Flying.

To participate in these courses, students follow the instructions they have received from their Transcendental Meditation instructor and the TM-Sidhi Program Administrators, who have been trained by Maharishi. In addition to these instructions, the University faculty have organized a structure for grading these courses. Grading for RC courses is based on two criteria:

1) Attendance at group program for those who have completed instruction in the Transcendental Meditation technique, and
2) Yogic Flying performance for those who have also completed the TM-Sidhi program.

A special Research in Consciousness grade point average (RC GPA) is listed on the transcript that includes just these courses.

General University Requirement
For graduation with a degree or certificate from Maharishi University of Management, students are required to pass each semester’s RC course with a grade of “C” or higher.

Undergraduate students are automatically enrolled in RC 320 or RC 332 for each block they are enrolled at the University. Graduate students are automatically enrolled in RC 520 or RC 535 for each block they are enrolled at the University.

All RC classes meet twice a day, morning and afternoon, for the group practice of the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying.

NOTE: Students in the Certificate in Research in Consciousness program are enrolled in RC 350 rather than the courses noted above. The certificate is granted after 12 units of RC 350 have been successfully completed (one month equals 0.5 units).
UNDERGRADUATE COURSE DESCRIPTIONS

RC 320 Collective Practice of the Transcendental Meditation Program
All undergraduate students who practice the Transcendental Meditation technique but have not completed the TM-Sidhi course are automatically enrolled in this course every block they are enrolled at the University. Attendance is required. (0.5 units per block — up to 3.0 units per semester)

RC 329 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I
Full-time students are eligible to apply for the TM-Sidhi course as an elective. (There is an additional fee for this course. Consult the Student Accounts Office for current fee schedules.) (2 units for each part) Prerequisites: satisfactory academic and personal performance while at the University, a record of good mental and physical health, completion of the TM-Sidhi course application, and acceptance by the TM-Sidhi program directors

RC 330 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II
Full-time students are eligible to apply for the TM-Sidhi course as an elective. (There is an additional fee for this course. Consult the Student Accounts Office for current fee schedules.) (2 units for each part) Prerequisites: satisfactory academic and personal performance while at the University, a record of good mental and physical health, completion of the TM-Sidhi course application, acceptance by the TM-Sidhi program directors, and completion of RC 329

RC 332 Collective Research in Consciousness
All undergraduate students who have completed the Transcendental Meditation-Sidhi course are automatically enrolled in this course every block they are enrolled at the University. Attendance is required. (One unit per block — up to 6 units per semester)

RC 350 Research in Consciousness: The Source of Management
All students taking the Certificate in Research in Consciousness program enroll in this course for each month they participate in the program. (0.5 units per month)

GRADUATE COURSE DESCRIPTIONS

RC 520 Collective Practice of the Transcendental Meditation Program
All graduate students who practice the Transcendental Meditation technique but have not completed the TM-Sidhi course are automatically enrolled in this course every block they are enrolled at the University. Attendance is required. (0.5 units per block — up to 3.0 units per semester)
RC 529 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I
Full-time students are eligible to apply for the TM-Sidhi course as an elective. (There is an additional fee for this course. Consult the Student Accounts Office for current fee schedules.) (2 units for each part) Prerequisites: satisfactory academic and personal performance while at the University, a record of good mental and physical health, completion of the TM-Sidhi course application, and acceptance by the TM-Sidhi program directors

RC 530 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II
Full-time students are eligible to apply for the TM-Sidhi course as an elective. (There is an additional fee for this course. Consult the Student Accounts Office for current fee schedules.) (2 units for each part) Prerequisites: satisfactory academic and personal performance while at the University, a record of good mental and physical health, completion of the TM-Sidhi course application, acceptance by the TM-Sidhi program directors, and completion of RC 529

RC 535 Collective Research in Consciousness
All graduate students who have completed the Transcendental Meditation-Sidhi course are automatically enrolled in this course every block they are enrolled at the University. Attendance is required. (One unit per block — up to 6 units per semester)

RC 545 Advanced Collective Research in Consciousness
In addition to RC 535, graduate students who are participating in the “Creating Coherence Program” are enrolled in this course. This course has the same basic structure as RC 535 but more time is spent on this research every day. Attendance is required. (1 unit per block — up to 5 units per semester)

Special Maharishi Vedic Science Studies Courses
NOTE: Some of the following courses are taught under the auspices of the Maharishi Vedic Education Development Corporation (MVED).

MVS 331 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I
The TM-Sidhi program is a natural extension of the Transcendental Meditation program and may be learned after two months of regular practice of the TM technique. The TM technique opens the awareness to Transcendental Consciousness, which is the basis of everyone’s awareness. The TM-Sidhi program cultures the ability to think and act from this level. This course includes instruction in the TM-Sidhi techniques and group knowledge and experience meetings. (2 units for each part) Prerequisites: a record of good mental and physical health, completion of the TM-Sidhi course application, and acceptance by the TM-Sidhi program directors
MVS 332 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II
The TM-Sidhi program is a natural extension of the Transcendental Meditation program and may be learned after two months of regular practice of the TM technique. The TM technique opens the awareness to Transcendental Consciousness, which is the basis of everyone’s awareness. The TM-Sidhi program cultures the ability to think and act from this level. This course includes instruction in the TM-Sidhi techniques and group knowledge and experience meetings. (2 units for each part) Prerequisites: a record of good mental and physical health, completion of the TM-Sidhi course application, acceptance by the TM-Sidhi program directors, and completion of MVS 331

MVS 480 Topics in Maharishi Vedic Science
This course presents knowledge of Maharishi Vedic Science, formulated by its Founder, His Holiness Maharishi Mahesh Yogi, applied to all streams of knowledge by the University faculty and guest lecturers. The principles of this integrated structure of knowledge are shown to have application for every area of society, as documented by the scientific research on the Transcendental Meditation and TM-Sidhi programs. (variable units, may be repeated)

MVS 490 Transcendental Meditation Program Teacher Training — Part 1
This first part of the Transcendental Meditation Program Teacher Training Course provides the knowledge and experience of consciousness as the basis of life and prepares one to present this knowledge to others. (variable units) Prerequisites: FOR 100 or FOR 500, and other prerequisites as established by MVED

MVS 491 Transcendental Meditation Program Teacher Training — Part 2
This course completes the Transcendental Meditation Program Teacher Training Course. It also provides an opportunity for personal development through deeper personal experience of the Unified Field of Natural Law and understanding of the Science of Creative Intelligence. Participation in the course does not automatically qualify a student to graduate as a teacher of the Transcendental Meditation program. Further training and fieldwork may be needed before graduation as a teacher. (variable units) Prerequisites: MVS 490 and other prerequisites as established by MVED

MVS 492 Transcendental Meditation Program Teacher Training Program Fieldwork Internship
This course allows students to learn and perfect the ability to expound the knowledge for developing consciousness as the Unified Field of Natural Law in the individual and in society. (2–8 units) Prerequisites: MVS 490, prior consent of the Department faculty, approved study plan, and consent of the Academic Standards Committee

MVS 493 Transcendental Meditation Program Teacher Training Program Teaching Internship
In this course, students who have qualified as teachers of the Transcendental Meditation technique and the Science of Creative Intelligence program work full time for at least one year teaching these programs. During this time students must teach the technique to a
minimum of 100 people to receive credit. Two units of credit are given for each month students are engaged in this internship. (24 units) Prerequisite: MVS 491

**MVS 495 Transcendental Meditation Program Governor Training**
This course is a rigorous and systematic investigation into the nature of human consciousness, both in its pure form, as the Unified Field of Natural Law, and in its expressed values as the specific Laws of Nature structuring the activity of the mind, body, and environment. This investigation makes use of (1) a laboratory component of direct personal experience of the Unified Field of Natural Law, (2) a theoretical analysis of laboratory experience, and (3) a historical analysis of that experience by comparing the nature and development of consciousness with ancient records. (up to 24 units, may be repeated) Prerequisites: MVS 491 and other prerequisites as established by MVED

**MVS 497 Transcendental Meditation Program Research Internship**
This course provides the opportunity for extended research in consciousness as a field of all possibilities as well as practical application of Maharishi Vedic Science. Four units of credit are given for each month students are engaged in this internship. (4–24 units) Prerequisite: acceptance by MVED

**MVS 498 Transcendental Meditation Program Minister Training**
This course offers an advanced level of experience and understanding of the science and technology of consciousness. It emphasizes the study and experience of the group dynamics of consciousness. Students are trained in how to fulfill their own desires in a natural way while at the same time spontaneously fulfilling the interests of the whole society. (up to 24 units) Prerequisites: MVS 495 and other prerequisites established by MVED

**MVS 531 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I**
The TM-Sidhi program is a natural extension of the Transcendental Meditation program and may be learned after two months of regular practice of the TM technique. The TM technique opens the awareness to Transcendental Consciousness, which is the basis of everyone’s awareness. The TM-Sidhi program cultures the ability to think and act from this level. This course includes instruction in the TM-Sidhi program and group knowledge and experience meetings. (2 units for each part) Prerequisites: a record of good mental and physical health, completion of the TM-Sidhi course application, and acceptance by the TM-Sidhi program directors

**MVS 532 Transcendental Meditation-Sidhi Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II**
The TM-Sidhi program is a natural extension of the Transcendental Meditation program and may be learned after two months of regular practice of the TM technique. The TM technique opens the awareness to Transcendental Consciousness, which is the basis of everyone’s awareness. The TM-Sidhi program cultures the ability to think and act from this level. This course includes instruction in the TM-Sidhi program and group knowledge and experience meetings. (2 units for each part) Prerequisites: a record of
good mental and physical health, completion of the TM-Sidhi course application, acceptance by the TM-Sidhi program directors, and completion of MVS 531
INTRODUCTION

Mathematics is the exact study of abstract patterns and relationships. The objects that mathematicians study, such as numbers, operations, shapes, and relationships, are abstract and underlie all physical reality, but have no physical reality themselves, existing only in the consciousness of the mathematician. Thus, mathematicians study the functioning of intelligence itself.

In their work, mathematicians refer back to the principles of intelligence in their own consciousness and are able to discover the same principles of order and intelligence that govern all areas of life. Thus, mathematics is able to provide the basic language for all other sciences and has applications in every area of life.

Students who study mathematics at Maharishi University of Management learn to see the connections between the functioning of their own intelligence and mathematical knowledge. They acquire quantitative skills, problem-solving abilities, and clarity of thinking that provide a basis for success and leadership in technology-based careers. Graduates of the program in mathematics are prepared to enter a wide range of careers or continue their education with graduate or professional studies.

PROGRAMS OFFERED

B.S. in Mathematics
The Major in Mathematics provides a foundation in mathematics, plus electives in
mathematics, computer science, biology, and/or physics. The program allows for flexibility in student goals by providing two tracks within the major.

**Mathematics Track**

This track provides a strong foundation in mathematics that includes an introduction to real analysis and abstract algebra, plus a limited number of electives in mathematics, computer science, and/or physics.

- Students are prepared for a career in a technical area or in other professional and scientific areas.
- By judicious choice of electives and other courses, students may graduate prepared to undertake graduate study in mathematics, in computer science, in business, or in other professional and scientific areas.
- By careful selection of additional courses in computer science, students can graduate prepared to complete the Master of Science in Computer Science at Maharishi University of Management in one year.
- By also majoring in education, students can graduate prepared to teach mathematics in primary or secondary schools.

**Sciences Track**

This track allows students to include more science courses than the Mathematics Track. It provides students with basic mathematics and computer science and an opportunity to take further courses in mathematics, computer science, or applied areas of interest to the student.

- Students are prepared for a career in a technical area or, with careful attention to electives and other courses, for graduate study in computer science, business, and other professional or scientific areas.
- By careful selection of additional courses in both computer science and mathematics, students can graduate prepared to complete the Master of Science in Computer Science at Maharishi University of Management in one year.
- By also majoring in education, students can graduate prepared to teach mathematics in primary or secondary schools.
- Although it is possible to proceed to graduate study in mathematics through this degree, it is preferable to do so by following the Mathematics Track.

**Minor in Mathematics**

This minor is for students who wish to have knowledge of mathematics to support their study in computer science or any of the natural or applied sciences.

**SPECIAL FEATURES**

- Students gain an understanding of the parts of mathematics in relation to each other, to themselves, and to the overall body of mathematics. This integrated approach to mathematics is relevant, lively, interesting, and fulfilling for students.

- Even in their first courses, students begin to appreciate the full range of mathematics,
from the deepest foundational levels to real-world applications in computer science, physics, engineering, business, and art.

• Students regularly use a computer laboratory to clarify principles and develop applications in many of their classes, including geometry, calculus, linear algebra, probability, and statistics.

• The mathematics department offers a friendly and nurturing environment for all students.

• All faculty are outstanding teachers. One has received an award for outstanding teaching from the Mathematical Association of America and another has attracted numerous National Science Foundation grants, including one to develop a model high school mathematics curriculum. The faculty organize annual mathematics festivals at the University that have attracted hundreds of high school students.

• Students regularly present their own research papers at the annual meeting of the Iowa Section of the Mathematical Association of America. Several students have received Outstanding Student Paper awards.

• Students participate in national and regional mathematics competitions. Two teams have received Honorable Mentions for their creativity and teamwork in the national Competition in Mathematical Modeling.

• The Math Club helps students sharpen their problem-solving abilities and encourages them to enter mathematical competitions.

• Research shows that educational techniques used at the University produce clearer, more orderly thinking, necessary for success in mathematics — and for later careers.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Bachelor of Science Degree in Mathematics and the Minor in Mathematics
Before entering the Major in Mathematics or the Minor in Mathematics, students must successfully complete Functions and Graphs 2 (MATH 162).

Graduation Requirements for the Bachelor of Science Degree in Mathematics
To graduate with a B.S. in Mathematics, students must successfully complete all requirements for the bachelor’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”)

As part of the requirements for the B.S. in Mathematics, all students must complete 52 units of required courses as follows:

28 units of required courses:
Students in the Mathematics Track must also complete

8 units of required courses:
MATH 423 Real Analysis 1
MATH 431 Algebra 1

Plus

8 units of mathematics courses numbered 267 or higher

Plus

8 units of electives chosen from the following:
• any mathematics course numbered 267 or higher,
• any physics course numbered 210 or higher,
• any computer science course numbered 200 or higher,
• MGT 424.

In addition, in their final year, students in the Mathematics Track are required to
• Take the Educational Testing Service Major Field Test in Mathematics and submit their results to the Department of Mathematics.

Students in the Sciences Track must also complete

4 units of required courses:
• CS 201 Computer Programming 1

plus

8 units of computer science courses numbered 203 or higher

plus 3 electives chosen from the following courses:
• any mathematics course numbered 267 or higher,
• any physics course numbered 210 or higher
• any computer science course numbered 203 or higher
• any chemistry course numbered 201 or higher
• any biology course numbered 260 or higher

In addition, in their final year, students in the Sciences Track are required to:
• Take an assessment test to be chosen by the Department of Mathematics, and to submit the results to the Department of Mathematics. Students, who have taken the general
Graduate Record Examination (GRE) for entry into graduate school or for other purposes, may satisfy this requirement by simply submitting their GRE results to the Department of Mathematics. Students not taking the GRE will need to consult the Department of Mathematics to determine an appropriate test.

**Students in both tracks are required in their senior year to**

- Complete a Senior Project, either in place of the required project for a higher-level mathematics course, or by including the course MATH 490 Senior Project in their 52 units of required courses, or both. See below under MATH 490 Senior Project for a description of this project.
- Make their Senior Project into a poster for submission for presentation at the annual Knowledge Celebration in June of the year of completing the Major in Mathematics.

**Master of Science in Computer Science**

Students completing the Sciences Track of the Mathematics Major with courses in computer science are eligible to continue on to Maharishi University of Management’s Master of Science in Computer Science and may be able to complete it in one year.

Students enrolling in the Sciences Track of the Major in Mathematics, who intend to pursue this avenue, are advised to study carefully the “Entrance Requirements for the Master of Science Degree in Computer Science” given in the section of this catalog called “Department of Computer Science.” It is strongly recommended that these students complete all these requirements as part of their undergraduate program, in addition to the requirements for the Sciences Track of the Major in Mathematics. These students should also consult the Department of Computer Science regarding their best choice of computer science courses during their undergraduate program, so that they can complete the Master of Science in Computer Science in one year.

**Graduation Requirements for the Minor in Mathematics**

To graduate with a minor in mathematics, students must successfully complete 20 units of mathematics courses numbered 267 or higher.

**Teacher Certification with Endorsement in Mathematics — Primary Level**

Students aiming for teacher certification with endorsement in mathematics at the primary level need to complete the following courses:

- MATH 200 Mathematics: From Point to Infinity in Wholeness
- CS 200 Introduction to Computer Science or CS 201 Computer Programming 1 or CS 215 Introduction to Computer Science: Creating games
- MATH 266 Geometry for the Artist or MATH 267 Geometry
- MATH 272 Discrete Mathematics
- MATH 281 Calculus 1
- MATH 286 Linear Algebra 1
- MATH 351 Probability
- MGT 424 Statistics

This means that a student completing the Mathematics Track of a Major in Mathematics must be sure to also include (MATH 266 or MATH 267) and (CS 200 or CS 201 or CS...
215) and MGT 424 as part of their 52 units of required courses.

A student completing the Sciences Track of a Major in Mathematics must be sure to also include (MATH 266 or MATH 267) as part of their 52 units of required courses, and must also complete MGT 424.

Teacher Certification with Endorsement in Mathematics — Secondary Level

Students aiming for teacher certification with endorsement in mathematics at the secondary level are usually expected to complete a Major in Mathematics, but in any event need to complete the following courses:

MATH 200 Mathematics: From Point to Infinity in Wholeness
CS 201 Computer Programming 1
MATH 267 Geometry
MATH 272 Discrete Mathematics
MATH 281 Calculus 1
MATH 282 Calculus 2
MATH 286 Linear Algebra 1
MATH 351 Probability
MGT 424 Statistics

This means that a student completing the Mathematics Track of a Major in Mathematics must be sure to also include MATH 267 and CS 201 and MGT 424 as part of their 52 units of required courses.

A student completing the Sciences Track of a Major in Mathematics must be sure to also include MATH 267 as part of their 52 units of required courses, and must also complete MGT 424.

Mathematics Placement and Mathematics Requirements for All Students

Maharishi University of Management has a two-year distribution requirement in mathematics and many majors have mathematical prerequisites or requirements. During the first few weeks after arrival, all undergraduate students are placed at a particular level of mathematics, which usually involves taking a placement test in mathematics. For a complete description of the placement program in mathematics, please see “Mathematics Placement and Mathematics Requirements” in the section “Academic Policies” in this Catalog: (www.mum.edu/pdf/catalog/academicpolicies.pdf).

COURSES

MATH 148 Infinity: From the Empty Set to the Boundless Universe of All Sets — Exploring the Full Range of Mathematics and Seeing Its Source in Your Self

Mathematics takes place in the imagination, in consciousness, unlimited either by finite measuring instruments, by the senses, or even by the feelings. At the same time, mathematics has strict criteria for right knowledge. The power of mathematics lies in bringing infinity out into the finite and making it useful in everyday life — from deciding
which bank offers the best return on money, to medical imaging, to designing textiles, to creating a work of art, to putting a man on the moon.

In this course, students explore many different ways in which mathematics expresses, emerges from, and uses infinity and its self-interacting dynamics. They look at the foundation of mathematics in the infinitary processes of set theory, the universe of sets, different sizes of infinity, the continuum and its limit process, sequences and series, infinite replication, and applications of infinity in many areas of life. (2 units)
Prerequisite: FOR 101

MATH 151 Basic Mathematics: Locating the Basis of Mathematics in the Self-Interacting Dynamics of Consciousness
Arithmetic is the study of patterns, relations, and operations on numbers. Topics include the arithmetic of integers, fractions, decimal fractions, ratios, and percents, with an emphasis on applications. (4 units) Prerequisite: FOR 101

MATH 152 Elementary Algebra: Using Variables to Manage All Possible Numbers at the Same Time and Solve Practical Problems
The infinitely flexible language of algebra is used to quantify and model mathematical patterns and relationships. Topics include operations on algebraic expressions, linear equations, the coordinate plane, inequalities, factoring, and simple quadratic equations. (4 units) Prerequisite: FOR 101

MATH 153 Intermediate Algebra: Using Variables to Manage All Possible Numbers at the Same Time and Solve Practical Problems
This course extends Elementary Algebra to develop further algebraic models. Topics include polynomials, rational and radical expressions, quadratic equations, and graphing in the coordinate plane. (4 units) Prerequisite: MATH 152

MATH 161 Functions and Graphs 1: Name and Form — Locating the Patterns of Orderliness That Connect a Function with Its Graph and Describe Numerical Relationships
MATH 162 Functions and Graphs 2: Name and Form — Learning to Relate the Shape of a Graph to Its Corresponding Function
A mathematical function quantifies the relationship between two related quantities and can be used to model change. Functions and their graphs are essential to all branches of mathematics and their applications. (4 units each)
Topics 1: domain and range, average rate of change, graphs, functions (linear, exponential, logarithmic, and quadratic), and applications. Prerequisite: MATH 153
Topics 2: trigonometry, algebra of functions, compositions and inverses of functions, functions (trigonometric, power, polynomial, and rational), and applications. Prerequisite: MATH 161

MATH 170 Mathematics for Sustainable Living: Knowledge is for Action
This course is designed especially for students entering the major in Sustainable Living who do not have the basic algebraic prerequisites for that major and have placed into
Math 153 in the Mathematics Placement Test. Topics are drawn from college algebra, geometry, functions, and graphs, and these topics are related to problems in Sustainable Living such as landscaping, heat loss, solar and wind energy, and water management. (4 units) Prerequisite: MATH 152

MATH 200: Mathematics: From Point to Infinity in Wholeness
This course gives students a vision of the unified structure of modern mathematics grounded in the infinite, self-referral field of pure intelligence, the Unified Field of Natural Law. Students explore many different ways in which mathematics expresses, emerges from, and uses infinity and its self-interacting dynamics, and how the mathematical quantification of the infinite dynamism of the unified field leads to the great organizing power of modern mathematics. Topics include the development of set theory as a foundation of mathematics, the deductive structure of mathematics, algebraic symbolism and structure, elementary number theory, geometry, the continuum and its limit process, and applications of mathematics in physics, computer science, and many areas of our lives. (4 units) Prerequisite: FOR 101

MATH 205 Maharishi Vedic Mathematics: Mathematical Structure and the Transcendental Source of Natural Law
This course studies the mathematics of Veda, as explained by Maharishi. Topics include mathematical models of the self-referral structure of the Veda, mathematics as the intellectual expression of the structure of pure knowledge, mathematics in the Vedic Literature, and examination of the principles of modern mathematics in the light of Maharishi Vedic Science. (2–4 units) Prerequisite: Prerequisite: FOR 101

MATH 266 Geometry for the Artist: Applying Abstractions of Shape and Form to Create Beautiful Concrete Images
Geometry, the study of shape and form, is an essential tool for the visual artist. Topics in this course include symmetry, Euclidean and non-Euclidean geometry, perspective and projective geometry, and fractals. Materials fee: $10 (4 units) Prerequisite: FOR 101

MATH 267 Geometry: From Point to Infinity — Using Properties of Shape and Form to Handle Visual and Spatial Data
Geometry gives an understanding of shape, form, and structure that has many applications in mathematics, science, and technology. In-depth study of Euclidean and non-Euclidean geometries and their applications. (4 units) Prerequisite: MATH 162

MATH 272 Discrete Mathematics: Unified Approaches to Managing Discrete Phenomena in Computer Science and Other Disciplines
Discrete mathematics, the study of finite processes and discrete phenomena, is essential for computer science. Topics include logic and sets, relations and functions, vertex-edge graphs, recursion, and combinatorics. (4 units) Prerequisite: MATH 162
MATH 281 Calculus 1: Derivatives as the Mathematics of Transcending, Used to Handle Changing Quantities

MATH 282 Calculus 2: Integrals as the Mathematics of Unification, Used to Handle Wholeness

MATH 283 Calculus 3: Unified Management of Change in All Possible Directions

Calculus, one of the most useful areas of mathematics, is the study of continuous change. It provides the language and concepts used by modern science to quantify the laws of nature and the numerical techniques through which this knowledge is applied to enrich daily life. Using the mathematics computer laboratory, students gain a clear understanding of the fundamental principles of calculus and how they are applied in real-world situations. (4 units each)

Topics Calculus 1: limits, continuity, derivatives, applications of derivatives, integrals, and the fundamental theorem of calculus. Prerequisite: MATH 162
Topics Calculus 2: techniques of integration, further applications of derivatives, and applications of integration. Prerequisite: MATH 281
Topics Calculus 3: infinite series, functions of several variables and their derivatives, gradient, directional derivatives, vector-valued functions and their derivatives, the Jacobian matrix, and chain rule. Prerequisite: MATH 286

MATH 286 Linear Algebra 1: Linearity as the Simplest Form of a Quantitative Relationship

Linear algebra studies linearity, the simplest form of quantitative relationship, and provides a basis for the study of many areas of pure and applied mathematics, as well as key applications in the physical, biological, and social sciences. Topics include systems of linear equations, vectors, vector equations, matrices, determinants, vector spaces, bases, and linear transformations. (4 units) Prerequisite: MATH 282

MATH 304 Calculus 4: Locating Silence within Dynamism

This course extends the calculus of a function of a single real variable to functions of several real variables. Topics include maxima and minima, curvilinear coordinates, line integrals, multiple integrals, change of variables, gradient fields, surface integrals, and the theorems of Green, Stokes, and Gauss. (4 units) Prerequisite: MATH 283

MATH 307 Linear Algebra 2: Unified Approaches to Linear Transformations

This course deepens and extends many of the topics covered in Linear Algebra 1; additional topics include the Cayley-Hamilton theorem, Jordan canonical form, inner-product spaces, orthogonality, and spectral theory. (4 units) Prerequisite: MATH 286

MATH 308 Ordinary Differential Equations: Describing Evolving Systems and Predicting Their Future

The most concise mathematical expression that describes a continuously changing physical system is a differential equation, which uses derivatives to quantify all possible states of an evolving system in one equation. Topics include first-order differential equations, second-order linear differential equations, power-series solutions, Laplace transforms, numerical methods of solution, and systems of differential equations. (4 units) Prerequisite: MATH 283
MATH 310 Mathematical Problem Solving: Systematic Techniques for Using Mathematics to Solve Problems
Problem solving is a fundamental — and exciting — part of mathematics. In this course, students develop and practice many methods and techniques of mathematical problem solving. (4 units) Prerequisite: MATH 282

MATH 315 Special Topics in Mathematics
In this course students investigate a specialized area of mathematics in depth. Topics will vary. (4 units — may be repeated) Prerequisite: consent of the instructor

MATH 318 Complex Analysis: Transcending the Real Numbers to a Simpler and More Unified Numbering System
Complex analysis is one of the great achievements of modern mathematics, providing an extension of the real number line to a two-dimensional plane of numbers with surprising applications throughout most areas of mathematics. Topics include analytic functions, Cauchy-Riemann equations, contour integration, Cauchy’s Theorem and integral formulas, power series, residue theorem, and conformal mappings. (4 units) Prerequisite: MATH 304

MATH 351 Probability: Locating Orderly Patterns in Random Events to Predict Future Outcomes
Probability provides precise descriptions of the laws underlying random events, with applications in quantum physics, statistics, computer science, and control theory. Topics include permutations and combinations, conditional probability, random variables, discrete and continuous distributions, expectation, and the central limit theorem. (4 units) Prerequisite: MATH 282

MATH 353 Probability and Statistics 1: Methods for Deriving Dependable Knowledge from Incomplete Information
Probability provides precise mathematical descriptions of the laws underlying random events, and statistics uses this mathematical theory to make inferences from empirical data and assess their reliability. Topics include probability, random variables, probability distributions, mean and standard deviation, central limit theorem, tests of hypotheses, linear regression, and correlation. (4 units) Prerequisite: MATH 161

MATH 354 Probability and Statistics 2: Methods for Deriving Dependable Knowledge from Incomplete Information
The topics of Probability and Statistics 1 are studied more deeply, with emphasis on their mathematical foundations. (4 units) Prerequisites: MATH 353 and MATH 283

MATH 370 Mathematical Logic: Mathematical Criteria for Establishing Accurate Forms of Knowledge
Mathematical logic is the mathematical description of the structure and function of the symbolic language of mathematics. This course develops a rigorous symbolic language, suitable for expressing all mathematical concepts, demonstrates the soundness and
completeness of the language, and shows the inherent limitations of such formal systems indicated by Gödel’s Incompleteness Theorems. (4 units) Prerequisite: consent of the instructor

MATH 399 Directed Study
(variable units) Prerequisite: consent of the department faculty

MATH 401 Practicum in Teaching College Mathematics: Knowledge Is Structured in Consciousness
Under the direction of a senior faculty member, students prepare and give lectures, lead tutorial sessions, and write and grade quizzes and exams for a college-level mathematics course. (4 units) Prerequisite: consent of the instructor

MATH 402 Undergraduate Research in Mathematics
This course provides an opportunity for students to do original research under the supervision of a faculty member. (1 unit) Prerequisite: consent of the instructor

MATH 410 Seminar in Applied Mathematics 1: Knowledge Is for Action
MATH 411 Seminar in Applied Mathematics 2: Knowledge Is for Action
In these courses, students apply the theoretical knowledge they have gained in previous mathematics courses to an applied problem taken from a real-life situation in business or industry. Problems differ from year to year. (4 units each — may be repeated) Prerequisite: consent of the instructor

Scientific and engineering applications of computers require advanced numerical techniques of manipulating and solving complex systems of equations with great efficiency and minimum error. Topics include numerical solutions of systems of linear equations, curve fitting, interpolation, numerical integration, solution of algebraic equations, and error analysis. (4 units) Prerequisite: MATH 282

MATH 423 Real Analysis 1: Locating the Finest Impulses of Dynamism within the Continuum of Real Numbers
MATH 424 Real Analysis 2: Developing a Conceptual Foundation for Calculus
Analysis is the mathematically rigorous development of calculus based on the theory of infinite sets. The analysis sequence begins with the application of the infinitary methods of set theory to construct the uncountable continuum of real numbers and unfold its topological structure, and then shows how the basic principles of calculus can be logically unfolded from this set-theoretic understanding of the continuum. (4 units each) Topics 1: infinite sets, completeness, open sets, closed sets, compact sets, connected sets, and continuous functions. Prerequisite: MATH 283 Topics 2: properties of continuous functions, differentiation, mean value theorem, Riemann integral, numerical sequences and series. Prerequisite: MATH 423
MATH 431 Algebra 1: Algebraic Operations as the Self-Interacting Dynamics of a Mathematical System
Algebra is the study of the structures given to sets of elements by operations or relations as well as the structure-preserving transformations between these sets. (4 units each)
Topics Algebra 1: groups and subgroups, quotient groups, group homomorphisms, direct sum, kernel, image, Noether isomorphism theorems, and the structure of finitely generated abelian groups. Prerequisite: MATH 286
Topics Algebra 2: rings, integral domains, fields, principal ideal domains, unique factorization domains, modules and submodules, tensor products, and exact sequences. Prerequisite: MATH 431

MATH 434 Set Theory: Mathematics Unfolding the Path to the Unified Field — the Most Fundamental Field of Natural Law
Set theory provides a unified foundation for the diverse theories of modern mathematics based upon the single concept of a set. Topics include axioms of set theory, ordinals, transfinite induction, the universe of sets, cardinal arithmetic, large cardinals, and independence results. (4 units) Prerequisite: MATH 370

MATH 436 Foundations of Mathematics: The Unified Field as the Basis of All of Mathematics and All Laws of Nature
This course introduces recent developments that have provided important new insights into the structure of the foundations of mathematics. Topics covered in the course vary from year to year. (4 units) Prerequisite: MATH 370

MATH 460 Topics in Set Theory
Topics vary from year to year and may include large cardinals and elementary embeddings; applications of set theory to topology and analysis; applications of set theory to algebra; introduction to the theory of forcing; Gödel’s constructible universe; descriptive set theory. (4 units) Prerequisite: consent of instructor

MATH 466 Topology: Relation between Point and Infinity
Topology shows how all mathematical aspects of shape, structure, and form can be expressed in terms of set theory. Students study topologies and their properties of separation, connectedness and compactness, topological mappings, and the fundamental group of a topological space. (4 units) Prerequisites: MATH 423 and 431

MATH 485 Theory of Computation: The Laws That Govern the Self-Interacting Dynamics of Numbers and Their Application
Students focus on formal abstract models of computation and capabilities of abstract machines in relation to their increasing ability to recognize more general classes of formal languages. Topics include formal grammars, finite-state machines, equivalence of finite-state machines, right-linear and left-linear grammars, pushdown automata, context-free languages, Turing machines, unsolvable problems, and recursive functions. (4 units) Prerequisite: MATH
MATH 490: Senior Project: Integration of All Knowledge in the Self
Students write a substantial paper unifying the knowledge gained from the courses taken during their major and relating this knowledge to deep principles from Maharishi’s Vedic Science. This paper may take the form of: 1) An integrated summary of main ideas from the courses taken during their major, addressing themes and questions to be provided by the Department of Mathematics, or 2) A paper written in accord with the guidelines for submissions for the Raja Raam Award and submitted for that award (see description elsewhere in this Catalog), or 3) A report of research conducted by the student on a mathematical topic or problem chosen in conjunction with the Department of Mathematics. In all of these cases, the paper will be made by the student into a poster for submission for presentation at the annual Knowledge Celebration in June of the year of completion of the major. (4 units) Prerequisite: consent of the instructor

MATH 499 Directed Study
(variable units) Prerequisite: consent of the department faculty
DEPARTMENT OF PHYSICS

FACULTY

• John Hagelin, Ph.D., Chair, Professor of Physics, Director of the Institute of Science, Technology and Public Policy
• David Scharf, Ph.D., Associate Professor of Physics
• Kurt Kleinschnitz, Ph.D., Adjunct Assistant Professor of Physics
• Rick Weller, Ph.D., Adjunct Assistant Professor of Physics
• Richard Wolfson, Ph.D., Adjunct Assistant Professor of Physics

INTRODUCTION

It is said that, if you understand the laws of physics, you are halfway to understanding the world. It’s in that spirit – of physics as the basic core of today’s most important scientific disciplines – that Maharishi University of Management offers an exciting and comprehensive minor program in physics.

But the study of physics, as rigorous and compelling as it is as a field, also develops lifelong problem-solving, computational and computer-related skills that enable a graduate to excel in the most demanding and cutting-edge areas of study and professional work.

At M.U.M., the physics minor is on the road to these discoveries. Whether the graduate steps into the fields of astronomy, chemistry or computer science, engineering, science writing, energy management or environmental policy (to name but a few fields that physics prepares you for) physics study at M.U.M. can be the ticket to employment in an endless variety of fascinating professional adventures.

This path is all the more powerful due to the program’s emphasis on both the direct experience and theoretical understanding of human consciousness and its higher states – integral parts of M.U.M.’s physics curriculum. Down through the centuries, the most brilliant and creative physicists have emphasized human consciousness as the foundation for their discoveries. And an exciting momentum has built up over the past 30 years, as theoretical physicists have reached milestones toward a complete unified field theory of all the known force and matter fields of nature. Inspired by the guidance of His Holiness, Maharishi Mahesh Yogi, the physicists at Maharishi University of Management have proposed that this complete unified field at the basis of the whole universe is the same as the Unified Field of Consciousness, the experience of which has been recorded in the ancient Vedic literature and revived through the advanced technologies of consciousness, the Transcendental Meditation and TM-Sidhi programs.

Now, with the increasingly widespread recognition that consciousness is much more than a localized offshoot of brain functioning, the spotlight is even brighter on physics as a leading discipline in the field of consciousness studies. That same light is also focused on
M.U.M., now taking a leadership role in the field of consciousness studies, especially as we begin to explore the true potential of higher states of consciousness. Which means our physics program is in the exciting and unique position of being able to explore new territory – the rich and fertile connections between consciousness, brain research and the study of physics.

There are too many universities where the study of physics is regarded as attainable by only an elite few. But at M.U.M., consciousness-based education nourishes and supports every student’s ability to understand the most advanced new theories, out of reach at many other universities. With a faculty committed to individual attention and learning styles, any conscientious student who wants to learn physics will succeed. Beginning with an understanding of the mathematical precision, so essential to embracing physical concepts, and taken in a step-by-step manner, with generous classroom support, no student need be left behind.

As they approach the conceptual breakthroughs of advanced physics, students embark on a journey that will take them to an entire new way of thinking, a journey that will take them beyond ordinary, waking-state experience and into the realm of higher states of consciousness, woven into M.U.M.’s academic program.

The experience of these higher states, coupled with a unique understanding of the entire process, makes M.U.M.’s physics students naturally feel at home with even the most sophisticated concepts and puts them in a rare position in the boundary-breaking world of the leading edge of physics.

**DEPARTMENTAL REQUIREMENTS**

**Graduation Requirements for the Minor in Physics**
To graduate with a minor in physics, students must successfully complete the following Mathematics courses

- MATH 281 Calculus I
- MATH 282 Calculus II

And at least two of the following General Physics courses:

- PHYS 210 Introduction to Classical Mechanics
- PHYS 230 Introduction to Electromagnetism
- PHYS 240 Introduction to Harmonics, Waves and Optics
- PHYS 250 Introduction to Modern Physics

Plus any three additional 4-unit Physics courses numbered PHYS 210 or higher.
COURSES

All courses are 4 units unless otherwise indicated.

PHYS 110 Foundations of Physics and Cosmology: Discovery of the Unified Field and Its Practical Applications for Perfection in Life
This course gives a deep and non-mathematical understanding of the differences between classical and quantum physics. It explains the meaning and mechanics of unification and symmetry, and the main concepts of unified quantum field theories and superstring theory. It shows that at the basis of the universe lies a complete unified field, a self-interacting entity from which all particles and forces arise through the process of spontaneous symmetry breaking. The course gives students experience and understanding of the interconnectedness between the laws of physics, the universe and themselves. As an important section of the course, students are encouraged to take part in a two-day field trip to Fermilab and the Adler Planetarium in Chicago. Prerequisite: FOR 101.

PHYS 210 Introduction to Classical Mechanics
Classical mechanics provides an accurate description of the objects and phenomena of everyday experience, and constitutes the basis of most of engineering, science and technology. In this course, students analyze the forces and motions of classical particles and extended bodies in space and time. Topics include the study of velocity and momentum as well as energy and forces, with particular emphasis on gravitation and the laws of conservation. Prerequisite: MATH 162.

PHYS 230 Introduction to Electromagnetism
Electrical forces largely determine the observable properties of matter in the whole range of science from atomic theory to cell biology. The integration of electricity and magnetism constitutes the first unified field theory, anticipating contemporary approaches by more than a century. In this course, students are introduced to electrostatic and electromagnetic fields, electric currents and electromagnetic interactions. Topics include Coulomb’s, Gauss’s, Ampere’s and Faraday’s laws, along with Maxwell’s equations. Prerequisite: MATH 282.

PHYS 240 Introduction to Harmonics, Waves and Optics
This course begins with mechanical aspects of harmonics, waves and sound. It then combines these principles with those of the electromagnetic field for the investigation of geometrical and physical optics. In addition, special attention is given to the analysis and interpretation of EEG brain wave patterns. Topics include simple harmonic motion, resonance, wave properties such as refraction, diffraction, interference, polarization and optical phenomena related to lenses and mirrors. Prerequisite: MATH 162.

PHYS 250 Introduction to Modern Physics
Quantum mechanics and Einstein’s theory of relativity are the major themes of this course. Topics include special relativity, the birth of quantum mechanics, Schrödinger’s equation, wave mechanics of one-dimensional problems and the hydrogen atom. Prerequisite: MATH 282.
PHYS 270 Introduction to Astronomy
In this course students learn about sky maps, astronomical observation and the whole universe. Topics include the history of astronomy, sky charts, telescopes, spectroscopy, sun and planets, stellar formation and evolution, black holes, galaxies, cosmology and the early universe. Prerequisite: MATH 162.

PHYS 290 The Evolution of Physics: From Einstein to Maharishi
Some of the most extraordinary, mind-expanding concepts of the past century have emerged from modern physics. This course is an engaging, minimally mathematical course, emphasizing the profound principles and concrete examples from physics that best illuminate the foundations of Maharishi Vedic Science. Topics will include the Principle of Least Action, Einstein's Relativity Theory, the Meissner Effect, quantum measurement theory, the EPR paradox, Bell's theorem, and quantum teleportation. Prerequisite: FOR 101.

PHYS 294 Quantum Neuroscience
Investigation of the neural correlates of consciousness is an area of active research in neuroscience and consciousness studies today. Many researchers understand that consciousness is more than just a localized offshoot of the brain and that, therefore, it is plausible that the neural correlates of consciousness will involve a level of matter beyond classical physics. The investigation of the neural correlates of consciousness will likely involve advanced physics, including quantum theory. Hence quantum neuroscience has become a lively field of research. A review of contemporary publications in the field will demonstrate the need for Maharishi’s quantum mechanical, consciousness-based understanding of the human experience and physiology. The course will draw on evidence of the quantum theoretical nature of neurophysiology from the most advanced research in brain integration. Prerequisite: FOR 101.

PHYS 297 Philosophy of Science
Understanding foundational issues underlying the scientific method is essential for the contemporary thinker and, especially, for the practicing scientist. The scientific method is the systematic, repeatable empirical approach to acquiring knowledge, involving the discovery and testing of hypotheses against the experimental evidence. The issue of alternative explanations for a given empirical result, including the null hypothesis, is examined from both an abstract, philosophical perspective and the pragmatic perspective of working scientists and statisticians. The important contrast between normal science and paradigm-change is studied with reference to the reaction in the wider scientific community to the Maharishi Effect research. Finally, we examine the significance for the philosophy of science of Maharishi’s principle that knowledge is structured in consciousness and knowledge is different in different states of consciousness. Prerequisite: FOR 101.
PHYS 313 Classical Mechanics I  
PHYS 314 Classical Mechanics II  
Students explore the formal structure of Newtonian mechanics with application to single-particle systems. Topics include kinematics, dynamics, the harmonic oscillator, three-dimensional motion, constraints, non-inertial systems, central force problems and scattering. Prerequisite: MATH 282.

PHYS 330 Electromagnetism I  
PHYS 331 Electromagnetism II  
Students apply the calculus of vector fields to the study of electromagnetic fields and their sources. Maxwell’s equations and their application to relativistic and non-relativistic phenomena are examined in detail, along with the principles of physical optics. Prerequisite: MATH 282.

PHYS 340 Relativity Theory I  
PHYS 341 Relativity Theory II  
This course discusses special relativity and introduces general relativity, including Riemannian geometry, Mach’s Equivalence Principle, Einstein’s field equation, the Newtonian limit, experimental tests, black holes and the structure of space-time. Prerequisite: MATH 282.

PHYS 360 Quantum Mechanics I  
PHYS 361 Quantum Mechanics II  
PHYS 362 Quantum Mechanics III  
Topics include wave mechanics, one-dimensional potential, operator methods and the Dirac formulation, the harmonic oscillator, Schrödinger and Heisenberg representations, the classical limit and the WKB approximation. In addition, these courses consider identical particles, quantum paradoxes and interpretations, angular momentum, central potentials and the hydrogen atom, electrons in electromagnetic fields, spin and general two-state systems, addition of angular momenta, the EPR paradox and Bell’s theorem, perturbation theory, the variational method, fine structure, atoms and molecules, emission and absorption of radiation, scattering theory, density matrices and measurement theory. Prerequisite: MATH 282.

PHYS 370 Thermodynamics and Statistical Mechanics  
Thermodynamics studies the transformations of energy in macroscopic systems. It is chiefly concerned with the general laws governing the transformation of heat into work and the effect of these laws on the thermal properties of bulk matter. Statistical mechanics derives these laws, as well as the more fundamental properties of bulk matter, from the dynamical behavior of underlying microscopic constituents. Prerequisite: MATH 282.

PHYS 375 Astrophysics  
Topics include stellar structure, energy generation in stars, white dwarfs, neutron stars, black holes, the dynamics of star formation, the structure of the universe, cosmology and the Big Bang. Prerequisite: MATH 282.
The intelligence of nature is encoded and expressed in the language of mathematics. This course is designed to develop and refine the mathematical skills needed for successful study in physics and related sciences. By making these mathematical skills second nature, the mind is freed to comprehend the deeper principles of natural law embedded in the formulas and equations. Prerequisite: MATH 282.

This course focuses on experimental research methods, giving students experience in designing and performing laboratory experiments. In addition to laboratory work in traditional areas such as mechanics and electromagnetism, students will be encouraged to design and carry out experiments in the EEG laboratory. Prerequisite: MATH 162.

(Variable units) Prerequisite: consent of the Department faculty.

Scientific and engineering computer application requires advanced numerical techniques of manipulating and solving complex systems of equations with great efficiency and minimum error. Topics include numerical solution of linear equations, curve fitting, interpolation and polynomial equations, numerical integration and differentiation, solution of nonlinear equations, and error analysis. Prerequisite: MATH 282.

This course presents methods and principles for the application of computational tools to scientific and engineering problems. Students will gain practical experience in the sophisticated application of readily available and easy-to-use mathematical software and database tools to model physical systems and solve advanced physics problems. Prerequisite: MATH 282.

These courses present an overview of the physical concepts and computational methods of quantum field theory, including the analysis of quantum electrodynamics using Feynman diagrams, beginning with electron-positron annihilation. The quantization of fields is explained. Many-body theory is considered, along with condensed matter physics and nuclear physics. The standard model is elucidated, and the importance of symmetry transformations for the unification of the four forces is considered. Advanced topics include the study of Hagelin’s Flipped SU(5) grand unified theory based on the superstring, and attention is given to hidden sector matter as providing a natural
mechanism for quantum coherent phenomena in biological systems. Prerequisite: PHYS 360 and PHYS 361.

**PHYS 499 Directed Study**
(Variable units) Prerequisite: consent of the Department faculty.
DEPARTMENT OF PHYSIOLOGY AND HEALTH

FACULTY

• Robert Keith Wallace, Ph.D., Chairman, Professor of Physiology, Director of Research, Founding President of Maharishi University of Management
• Paul Morehead, Ph.D., D.W.P., Associate Chairman, Department of Physiology and Health
• Robert Schneider, M.D., Professor of Physiology and Health, Director of the Institute for Natural Medicine and Prevention
• Sanford I. Nidich, Ed.D., Professor of Physiology and Health and Education, Associate Director of the Institute for Natural Medicine and Prevention
• Richard Averbach, M.D., Adjunct Professor of Physiology and Health
• Frederick Travis, Ph.D., Dean of the Graduate School, Chairman of the Department of Maharishi Vedic Science, Professor of Maharishi Vedic Science
• Nancy Lonsdorf, M.D., Adjunct Professor of Research
• Maxwell Rainforth, Ph.D., Assistant Professor of Physiology and Health and Statistics
• John Salerno, Ph.D., Assistant Research Professor, Assistant Director of the Institute for Natural Medicine and Prevention
• Hari Sharma, M.D., Clinical Professor of Physiology and Health
• Stuart Rothenberg, M.D., Clinical Associate Professor of Physiology and Health
• Veronica Butler, M.D., Clinical Associate Professor of Physiology and Health
• Helen Nelson, Ph.D., Adjunct Professor of Physics

INTRODUCTION

The mission of the undergraduate major in Physiology and Health is to create graduates who understand the scientific foundation of holistic health, both from the latest knowledge of modern science and from ancient Vedic science. Not only will students be exposed to the scientific principles of health from physics, chemistry, biology, anatomy and physiology, but also they will understand the essential role of consciousness—the inner Intelligence of the body—in promoting health and longevity. Graduates of the Pre Medicine track in Physiology and Health will be well prepared to apply to any medical school.

Maharishi Ayur-Veda™ is Maharishi Mahesh Yogi’s revival of the world’s most ancient system of health from the Vedic tradition. Students will understand that consciousness is the field of perfect balance and can be located at the source of thought through Maharishi’s Transcendental Meditation. The repeated enlivenment of that field of balanced intelligence enlivens balance in every cell, tissue and organ in the physiology. Students will understand and experience that this enlivenment of the inner intelligence results from developing the latent potential of the brain. The experience of pure consciousness during Transcendental Meditation has been scientifically demonstrated to increase EEG coherence, or order, in all parts of the brain. As a result the orderly functioning of the brain gives rise to increased intelligence, memory, problem-solving ability, and balanced autonomic functioning. As a further result, deep rest dissolves physiological, psychological and emotional stress, which is at the basis of many diseases.

The students will find that increased orderliness of the central nervous system and reduced stress enhances the balanced functioning of the autonomic nervous system, the endocrine and hormonal systems, and results in overall balance and vitality in the physiology. They will find that
Maharishi Ayurveda is prevention-oriented, natural, and free from the harmful side effects of modern, chemical-based medicine.

A strong foundation in the basic sciences will give a strong foundation for understanding the scientific nature and application of Maharishi Ayur-Veda. Over 650 research studies conducted all over the world during the last 38 years have confirmed that this knowledge of natural health care is consistently effective in improving all areas of health: physical, mental, behavioral, and environmental.

**SPECIAL FEATURES**

The Department of Physiology and Health offers uniquely effective knowledge for prevention of disease. This comprehensive range of knowledge, not available in any other system of health education, includes:

- Study of the precise relationship between the structures and functions of human physiology, and the fundamental structures of Natural Law contained in Veda and the Vedic Literature — and the application of this knowledge to maintain health;
- Maharishi Self-Pulse diagnosis — to detect balance and imbalance in the body by feeling the pulse and restoring balance before disease arises, through diet, daily and seasonal routines, and herbal preparations;
- The Transcendental Meditation and TM-Sidhi programs, including Yogic Flying — to give direct experience of the total field of intelligence and to promote deep rest, release of stress, and integrated functioning of body and mind; and
- Practice of this technology in large groups to purify collective consciousness and to bring life into harmony with Natural Law, the basis of perfect health for society.
- Many courses in the Physiology and Health program include Sanskrit. Students are sequentially introduced to proper pronunciation and reading of classical Sanskrit, the language of the Vedic Literature. After mastering correct pronunciation and the ability to read Devanagari text, students conduct research in the Vedic Literature by reading texts. Students study, in Maharishi Vedic Science, the explanation of the role of Sanskrit as the language of Nature. Reading the Vedic Literature enlivens Natural Law in the brain and whole physiology of the student, thereby enlivening the basis of health from within.

**Pre-Medicine BA Program**

Students in the Pre-Med BA program will study all of the traditional scientific disciplines necessary to enter medical school, including physics, general and organic chemistry, biochemistry, biology, anatomy and physiology. The focus of this study will be the knowledge and application of the sciences that are relevant for a health care professional. Emphasis will be on human biology, human anatomy and physiology, and organic and biochemistry that will be applied in health care practice. Students will be prepared to perform well on the Medical College Admission Test (MCAT), which is required by all medical schools.

**Conclusion**

The Bachelor's Degrees in Physiology and health aims to prepare students to care for their own health through regular practice of Maharishi's Transcendental Meditation program, ideal daily and seasonal routine, balanced diet and lifestyle choices, and mutually enriching social behavior. This degree program further aims to build a strong scientific understanding of health from the modern and Vedic perspectives.
DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the BA in Physiology and Health
Before entering either the BA or Pre-Medicine Track in Physiology and Health, students must successfully complete the following:

PH 101 Physiology Is Consciousness: Awakening the Cosmic Potentiality of the Human Brain (Students entering Spring semester can take this course before graduation)
MVS 102 Introduction to Sanskrit and Maharishi Vedic Science
For the Pre-Med Track, students will need to complete MATH 162 Functions and Graphs 2 as a prerequisite to the Physics and Chemistry modules.

Graduation Requirements for the BA in Physiology and Health Pre-Medicine Track
The Pre-Med Track in Physiology and Health requires 60 units, including the following Core Courses totaling 28 units.

PH Core Courses
PH 260 Self-Pulse Diagnosis
PH 262 Diet, Digestion and Nutrition
PH 263 Maharishi YogaSM Asanas
BIO 260 Biology I: Living Systems
BIO 263 Biology II: Molecular and Cell Biology
BIO 264 Biology III: Human Anatomy and Physiology
PH 380 Biostatistics and Medical Research Methods (prerequisite MATH 153)

Additional courses required for completion of the Pre-Med Track (32 units):
PHYS 209 Classical Mechanics (prerequisite MATH 162 Functions & Graphs II)
PHYS 244 Harmonics, Waves and Optics (prerequisite PHYS 209)
CHM 201 General Chemistry I (prerequisite MATH 162)
CHM 202 General Chemistry II (prerequisite CHM 201)
CHM 203 General Chemistry III (prerequisite CHM 202)
CHM 311 Organic Chemistry I (prerequisite CHM 203)
CHM 312 Organic Chemistry II (prerequisite CHM 311)
CHM 350 General Biochemistry (prerequisite CHM 312)

Recommended Electives:
PH 311 Fieldwork
PH 382 MCAT Preparation

Graduation Requirements for the BA in Physiology and Health
The BA in Physiology and Health requires 56 units, including the following Core Courses totaling 28 units.

PH Core Courses
PH 260 Self-Pulse Diagnosis
PH 262 Diet, Digestion and Nutrition
Additional Courses for the BA in Physiology and Health: Students may choose 28 units from among the following courses to complete the BA degree:

- BIO 250 Plant Science
- BIO 328 Ethnobotany
- BIO 338 Organic Agriculture
- CHM 201 General Chemistry I (prerequisite MATH 162)
- CHM 202 General Chemistry II (prerequisite CHEM 201)
- CHM 203 General Chemistry III (prerequisite CHEM 202)
- CHM 311 Organic Chemistry I (prerequisite CHEM 203)
- CHM 312 Organic Chemistry II (prerequisite CHEM 311)
- CHM 350 General Biochemistry (prerequisite CHEM 312)
- PHYS 209 Classical Mechanics (prerequisite MATH 162)
- PHYS 244 Harmonics, Waves and Optics (prerequisite PHYS 209)
- MVS 208 Fundamentals of Maharishi Vedic Science
- MVS 240 EEG, Brain, and Enlightenment
- MVS 321 Reading the Vedic Literature I
- SL 205 Physiology, Health and the Environment
- SL 327 Building Biology
- SL 210 Ideal Human Relationships
- ESS 336 Movement Science
- SL 346 Vedic Architecture and Green Architecture

Course offerings may vary each year.

Requirements for the Minor in Physiology and Health
The minor in Physiology and Health consists of any 5 of the core courses above.

The two prerequisite courses for entering the minor are as follows:
- PH 101 Physiology Is Consciousness: Awakening the Cosmic Potentiality of the Human Brain
- MVS 102 Introduction to Sanskrit and Maharishi Vedic Science

Special Option: Maharishi Transcendental Meditation program Teacher Training Course
Students may apply to become a Teacher of the Transcendental Meditation program. Teacher Training is a professional training program for which students apply to our International Course Office. Acceptance to this special course is given by the International Course Office, not Maharishi University of Management. This course carries 20 units of distribution credits. It does not replace any of the core curriculum in the major.
Special Advanced Standing for the Ph.D. in Physiology Degree
Students who already have attained an M.D. degree or M.S. or Ph.D. in Physiology may request special advanced standing toward the Maharishi University of Management Ph.D. in Physiology degree. Transcripts of previous graduate course work will be reviewed and credits will be applied where appropriate among the following areas: Maharishi Ayur-Veda, cell biology, molecular biology, biochemistry, general physiology, neurophysiology, anatomy, pathology, research methods, and statistics.

To be able to waive all course work for the Ph.D. degree, students must have at least 60 semester units of graduate course work, including Maharishi Ayur-Veda courses, approved by the department’s graduate faculty, in addition to receiving special approval by the director of the program and the dean of the graduate school. In certain cases, students will be allowed to waive the comprehensive exam and directly register for dissertation proposal guidance.

COURSES

Undergraduate Courses

PH 101 Physiology Is Consciousness: Awakening the Cosmic Potential of the Human Brain
The course will explore the new paradigm in science that the “Physiology is Consciousness.” Current concepts of mind and body will be understood in terms of this new paradigm. The human brain is unique in the universe. The unfathomably complex fabric of the brain neuropil rivals the billions of shining galaxies. This course examines the contribution of the Vedic tradition of knowledge to our understanding of brain structure and function, and hence, the potential that lies within every individual. The exponential growth of modern scientific understanding, primarily during the last 50 years, has created a situation in which we have an urgent need to understand the relationship between consciousness and our physiology. This course will present our facts of brain structure and function in light of Maharishi Vedic Science and Raja Raam’s discovery of Veda and Vedic Literature in human physiology. We will examine how our brain constructs reality at every moment and how, from Vedic Science, the transcendental field of life, the home of all the Laws of Nature is the source of these myriad physiological impulses seamlessly orchestrated to produce what we call human experience. We will study how the experience of unboundedness, the Self of every individual, can transform our physiology and awaken the total creative potential of the brain in enlightenment, the birthright of every human being. (4 units) (Prerequisite: FOR101)

PH 260 Self-Pulse Diagnosis: Measuring the Impulses of the Body’s Intelligence and Restoring Balance in the Physiology through the Touch of Three Fingertips
Self Pulse Diagnosis is the most ancient and most natural means of determining the level of balance or imbalance in the mind and body. This course presents Maharishi’s revival of
this ancient technology to determine the state of the inner intelligence of the body. Everyone should learn pulse diagnosis to maintain his or her own health. Pulse diagnosis allows one to detect imbalances early, before they manifest as disease. Pulse allows one to precisely determine where the imbalance is and how to restore balance. Furthermore, pulse is therapeutic in itself. Just taking the pulse increases the balance in the pulse and therefore the balance of the whole mind and body. Taking the pulse enlivens the connection between mind and body, consciousness and matter. (4 units) (Prerequisite: FOR101)

**PH 261 Prevention: Creating Perfection and Avoiding Disorder through the Principles and Practices of Maharishi Consciousness-Based Health Care — The Transcendental Meditation Technique, Pulse Diagnosis, Diet, Daily Routine, Seasonal Purification, and Alliance with All the Laws of Nature**
The Prevention course presents an overview of the whole discipline of Maharishi Consciousness-Based Health CareSM. In this course one learns how Consciousness expresses as physiology, and how enlivening Consciousness through all of the 40 approaches of Maharishi Consciousness-Based Health Care is the basis for restoring balance and creating perfect health. Prevention is much better than cure. Living life according to Natural Law is the means to “avert the danger that has not yet come.” This course gives all the principles and many practical points on how to live according to Natural Law. These include diet, daily and seasonal routine, an introduction to self pulse, Maharishi JyotishSM (the Vedic science of prediction), Vedic Architecture or Maharishi Sthapatya Veda®, and collective practice of the Transcendental Meditation and TM-Sidhi programs. (4 units) (Prerequisite: FOR101)

**PH 262 Diet, Digestion, and Nutrition: Imbibing Intelligence from Food and the Environment — Enlivening Strong Digestion and Selecting a Diet Ideally Suited to the Individual**
Diet, digestion and nutrition are fundamental to health. How we metabolize food and drink directly affects the strength, vitality, immunity, and longevity of the physiology. In this course detailed knowledge of the influences of foods on the physiology is described. Also the influence of consciousness on the process of digestion and nutrition is discussed carefully. Different foods are categorized according to their influence on the three principal governing qualities of intelligence in the body: communication and movement, transformation, and structure. The balance of these three principles determines the balance, strength, immunity and health of the body. And that balance is greatly influenced by the food that is taken, and the state of awareness of the one who is eating. This course provides very practical knowledge of what to eat, when to eat, and how to eat to maintain or restore perfect balance. (4 units) (Prerequisite: FOR101)

**PH 263 Maharishi Yoga Asanas: Vedic Exercise to Enliven Mind-Body Coordination to Support Pure Awareness, the State of Yoga**
This practical course presents the knowledge and experience of enlivening the unified state of consciousness, or Yoga, through the physiological approach of Yoga Asanas. Maharishi has revived the essential understanding that Yoga means unified level of
consciousness or Transcendental Consciousness, and that Yoga, one of the 40 aspects of the Vedic Literature provides the technologies to unfold that experience. The physical postures of Yoga Asanas are traditional positions that enliven the connection between mind and body, consciousness and physiology. When done properly, Maharishi Yoga asanas help dissolve stress and give the experience of settledness and expansion in the direction of the experience of pure consciousness, or Yoga. This unique practical course includes regular practice of Maharishi Yoga asanas as well as the understanding of their specific effects on the mind and body. (4 units) (Prerequisite: FOR101)

**PH 380 Biostatistics and Medical Research Methods**
This course introduces the knowledge and objective skills indispensable to scientific research. Topics include the scientific method, logical and practical considerations in experimental design and data acquisition, procedures for conducting literature reviews, selection of research topics, research ethics, and practical research aids such as computer-assisted data analysis. Particular emphasis is placed on clinical research design, including proper choice of control subjects and the prevention of bias in subject selection. (4 units) (Prerequisite MATH 153)

**BIO 260 Biology I: Living Systems**
How life’s dynamic intelligence applies the principles of biochemistry, cell biology, and genetics to uphold self-organization, maintenance, and evolution of life. Fundamental to all life are basic functions that uphold self-organization, maintenance, and evolution. This course covers aspects of biochemistry, cell biology, genetics, and evolution. Emphasis is placed on the expressions of intelligence, order, and integration found at different levels of biological organization. (4 units) (Prerequisite: FOR101)

**BIO 263 Biology II: Molecular and Cell Biology**
This course presents the foundations of Human Biology at the cellular and molecular level. Topics include human DNA and gene expression, enzymes & metabolism, cell components, cell division, and specialized cells and tissues of the body. Students will discover the fundamental themes of natural law in the ordered structures of the cell and the DNA. The DNA is the blueprint of the human physiology. (Prerequisite: FOR101)

**BIO 264 Biology III: Human Anatomy and Physiology**
Human Anatomy and Physiology provides the foundational understanding of how the body’s structure and function maintains life in balance and homeostasis. The integrated functioning of trillions of diverse cells, each with a million chemical reactions per second, gives rise to a healthy, vital human being. We will study tissues, organs, and 8 organ systems and their role in maintaining health and balance. The organ systems are the musculoskeletal, cardiovascular, digestive, respiratory, endocrine/reproductive, immune, and nervous systems.

The human physiology is also a replica of Natural Law expressed in the ancient Vedic Literature. Major areas of the physiology are precisely correlated in structure and function, to the 40 aspects of Veda and the Vedic Literature. Dr. Tony Nader, now Raja Raam, under Maharishi’s guidance, has discovered that every aspect of the ancient Vedic
Literature is mirrored by the human physiology. This understanding bridges the gap between the ancient, Vedic understanding of Natural Law and the modern understanding of human physiology and health. (4 units) (Prerequisite: FOR101)

**CHEM 201 General Chemistry I**
Topics include atomic and molecular structure, reaction mechanisms, thermochemistry, and the physical behavior of gases, with special emphasis on problem solving and quantitative reasoning. (Lab fee $25) (4 units) Prerequisite: MATH 162

**CHEM 202 General Chemistry II**
Topics include covalent bonding, liquids and solids, equilibria, kinetics, and acids and bases. (Lab fee $25) (4 units) Prerequisite: CHEM 201

**CHEM 203 General Chemistry III**
Topics include coordination compounds, the chemistry of oxidation-reduction reactions, chemical thermodynamics, nuclear chemistry, chemistry of selected elements, and atmospheric chemistry. (Lab fee $25) (4 units) Prerequisite: CHEM 202

**CHEM 311 Organic Chemistry I** Prerequisite: CHEM 203
**CHEM 312 Organic Chemistry II** Prerequisite: CHEM 311
These courses, which are taught with an emphasis on unifying principles, explore both structure and reaction mechanisms of organic compounds. Topics include bonding, spectroscopy, structure, physical properties, synthesis, and reactions of the major classes of organic compounds, including biomolecules. (Lab fee $25 per course) (4 units each)

**CHEM 350 General Biochemistry**
This course focuses on the basic chemical structures and chemical transformations that take place in living systems. Topics include the structure, kinetics, and regulation of enzymes; bioenergetics; and intermediary metabolism. (4 units) Prerequisite: CHEM 312

**PHYS 209 Classical Mechanics: Analysis and Synthesis**
The course presents classical physics topics including motion, force, momentum, equilibrium, work, energy, fluids, solids, and electrostatics, electromagnetism, and electronic circuits. Included are laboratory sessions, weekly seminar sessions, and reviews of current scientific papers. Case studies will emphasize applications from the life sciences and medicine. Computational skills relevant to scientific literacy will be emphasized. (Lab fee $50) (4 units) Prerequisite: MATH 162

**PHYS 244 Harmonics, Waves and Optics: Unity at the Basis of Diversity**
The course presents the physics of waves, periodic motion, sound, light, optics, quantum theory, atomic structure, nuclear structure, and physical chemistry. Emphasis is on application over derivation, development of rapid estimating skills, and real-world problem solving applications relevant to the life sciences. Laboratory sessions, weekly seminar sessions and reviews of current scientific papers help students develop a physics sensibility and scientific literacy. (Lab fee $50) (4 units) Prerequisite: PHYS 209
PH 311 Fieldwork — Applying the Knowledge of Physiology and Health
Students work in Maharishi Medical Centers or Centers for Chronic Disorders in various aspects of clinic operations including such areas as guest education, guest services, and clinic marketing. (4 units — may be repeated) Prerequisites: Consent of the department faculty and the Academic Standards Committee

PH 382 MCAT Preparation
The Medical College Admission Test (MCAT) is a standardized national exam required for entrance to medical school. In this course students will have the opportunity to integrate all of their learning in the BA in Physiology and Health, and will take practice MCAT exams.

PH 399 Directed Study: Gaining Total Knowledge through Self-Referral Education
(variable units) Prerequisite: consent of the department faculty.

Graduate Courses

PHYSI 700 Dissertation Proposal Preparation
For students with and M.D., MS or Ph.D. in Physiology only! Each student selects a dissertation committee and submits a dissertation topic to the graduate faculty for approval. Following acceptance of the dissertation topic, the student prepares the dissertation research proposal, which is evaluated by the dissertation committee. (3 units — may be repeated) Prerequisites: Ph.D. candidate status and consent of the dissertation advisor

PHYSI 701 Dissertation Research
For students with and M.D., MS or Ph.D. in Physiology only! Students conduct original research and prepare their dissertations during their third and fourth years in the program. Any changes in dissertation topic must be approved by the dissertation committee. (0.5–2.5 units — may be repeated) Prerequisites: approval of the dissertation proposal and consent of the dissertation committee
DEPARTMENT OF SUSTAINABLE LIVING

FACULTY
• David Fisher, Ph.D., Chair, Associate Professor of Botany
• Steven McLaskey, Ph.D., Assistant Professor of Biology and Agriculture
• Robert Keith Wallace, Ph.D., Professor of Physiology
• Lonnie Gamble, Assistant Professor of Sustainable Living
• Alex Kachan, B.A., Instructor
• Brian Horsfield, Ph.D., Adjunct Professor of Geology
• Michael W. Lerom, M.S., Assistant Professor of Chemistry

INTRODUCTION

The Department of Sustainable Living offers programs at the leading edge of sustainability. In these programs, students learn the most up-to-date knowledge and gain hands-on, practical experience in applying what they learn. Sustainable development is a concept typically referring to entire nations or broad geographical regions. When sustainable development is applied to local communities, the critical problems we face are fundamentally those of human consciousness. They arise when people do not use the full potential of their creativity and intelligence and, as a result, violate Laws of Nature. Maharishi University of Management is the first university in the world to expand the scope of sustainable living to include the knowledge of how to live in accord with Natural Law — how to avoid creating problems in the first place. This can be done only from the level of consciousness itself. In our study of consciousness we realize that the keys to solving puzzles in nature are the keys to our own consciousness. It is through developing awareness of the true connection between humans and their surroundings that we will see lasting progress in sustainability and the quality of the environment.

The Sustainable Living major builds an understanding of how to design and maintain communities that meet the needs of people and the environment so abundantly that they function indefinitely. It involves knowledge of the ecology of living systems with implications for sustainability in the areas of technology, agriculture, architecture, and landscape design, as well as in personal growth and evolution, social interaction, and sustainable business practices.

Ultimately, sustainability rests on a solid foundation, and scientific advancements depend upon the effective development of scientists of each age. Scientists working in the fields of environmental science, agriculture, and biology use a variety of techniques to explore nature and the responses of natural systems to natural and human influences. Each new angle of exploration uncovers some new understanding of the Laws of Nature governing living things. The new knowledge can then be applied to make improvements in agricultural practices or management of the environment. Through study of applied life
sciences, students come to appreciate the practical value of this knowledge in enabling humans to be the best possible custodians of the earth.

Students in this major must take at least 24 units in core courses, 24 units of eligible electives, and 8 units in a summative project.

**Programs Offered**
- B.S. in Sustainable Living, which prepares students for careers in sustainable community development and environmental coordination, or further study and research
- Minor in Sustainable Living, which provides students with a practical foundation for understanding the principles and practices of environmental design for communities

**SPECIAL FEATURES**
- In response to critical pressure on our planet’s natural resources, emphasis is on preparation in skills and knowledge that support the development of sustainable environmental practices, particularly at the community level.
- Students can earn up to 16 credits of internships in on-the-job training in sustainable agriculture, the building trades, environmental organizations, green business, and many other venues that provide practical experience in selected areas of interest.
- Academic credit may also be earned for successful completion of professional certification courses in LEED Green Building Rating System, Building Biology, and Permaculture Design, as well as for software competency in Energy 10 and/or Chief Architect.
- A track in Community Supported Agriculture goes from April through September and offers students the opportunity to experience all aspects of organic vegetable production. In this 6-month track students run and manage the Abundance Ecovillage CSA. Students are involved in all aspects, including collecting payments from members, bookkeeping, crop planning, planting, growing, harvesting, distribution, composting, and more.

**DEPARTMENTAL REQUIREMENTS**

**Entrance Requirements for Sustainable Living Majors**

Before entering the Sustainable Living major, students must successfully complete College Composition II (WTG 152) as well as MATH 161 or MATH 170 or MGT 314 or MGT 424.

**Graduation Requirements for the Bachelor of Science Degree in Sustainable Living**

To graduate with a B.S. in Sustainable Living, students must successfully complete all general requirements for the bachelor’s degree. (Please refer to “Degree Requirements”
24 units of core courses from the following:
- SL201 Sustainability Natural Law and Consciousness
- SL 215 Critical Thinking
- SL 202 Leadership and Team-Building
- SL326 High-Performance Green Building
- SL 350 Environmental Planning and Landscaping
- SL 405 Ecology
- SL 420 Renewable Energy
- SL 445 Environmental Law
- BIO 338 Organic Agriculture
- BIO 341 Permaculture Design
- BIO 405 Sustainable Global Environment
- MGT 402 Managing for Sustainability

24 units of electives from the following:
- SL 210 Ideal Human Relationships
- SL 275 Planning a Sustainable Family Farm
- SL 276: Biointensive Mini-Farming
- SL 280 Artisanal Foods and the Slow Food Movement
- SL 285 The Local Economy Network
- SL 320 Sustainable Woodworking
- SL327 Building Biology
- SL 330 Bio-Cultural Ethics
- SL 348 Sustainable Landscape Architecture
- SL 351: Alaska Village Design
- SL 398 Internship in Sustainable Living
- SL 415 Exotic Tropical Fruit Production
- SL421 Energy Policy for Sustainability
- SL 428 Sustainable Living Workshop
- SL 429 Sustainable Living Project Prep
- BIO 250 Plant Biology
- BIO 322 Plant Taxonomy
- BIO 328 Ethnobotany
- BIO 375 Earth Science
- BIO 498 Internship in Agriculture
- CMM 260 Digital Art for Sustainable Living
- MGT 200 Principles of Business Success
- MGT 418 Sustainable Economics
- MGT 432 Entrepreneurship Project
- FA 201 Art in Nature
- FA 205 Principles of Design
- FA 363 Web Design and Web Animation
- MVS 240 EEG, Brain, & Enlightenment
• MVS 309 Fundamentals of World Peace
• LIT 370 Literature and the Environment

In addition, students are required to complete at least 8 units of SL 430 Sustainable Living Senior Project, a summative project that will apply concepts and skills learned in other Sustainable Living courses.

**Graduation Requirements for the Minor in Sustainable Living**

To graduate with a minor in Sustainable Living, students must complete 20 units in the Sustainable Living core courses from the following:

• SL201 Sustainability Natural Law and Consciousness
• SL 202 Leadership
• SL 215 Critical Thinking
• SL326 High-Performance Green Building
• SL 350 Environmental Planning and Landscaping
• SL 405 Ecology
• SL 420 Renewable Energy
• BIO 338 Organic Agriculture
• BIO 341 Permaculture Design
• BIO 405 Sustainable Global Environment
• BIO 250 Plant Biology
• MGT 402 Managing for Sustainability
COURSES

Sustainable Living Courses

SL 201: Sustainability Natural Law and Consciousness -- Understanding Ecology, Economy and Community
This highly engaged course offers a comprehensive introduction to all aspects of sustainability in light of consciousness and the laws of nature. It will allow students to explore sustainability through seminars and workshops in Permaculture, Grow Bio-Intensive Vegetable and Herb Production, Renewable Energy, Community Building and Socially Responsible Business. Field trips, workshops and opportunities to see real world projects will be balanced with class discussions on Global Climate Crisis, the Economics of Sustainability and the role of Human Consciousness in creating a sustainable future for our world. (4 units) Prerequisite: FOR 101

SL 202: Leadership and Sustainable Living Adventure: Challenging the Self in Outdoor Adventure Sports at Landmarks of Sustainable Design
Looking for a challenging change from the classroom? This action-packed course will explore group dynamics and leadership in the context of adventure sports while providing visits to world-famous projects and institutions known for sustainable design. Sports will include kayaking, rock climbing, and mountain biking – all against the spectacularly scenic backdrop of the Southwest and Western United States. Some potential sites to visit: Arcosanti, the Rocky Mountain Institute, Black Range Lodge (Natural Building Center), Village Homes, Permaculture Institute of Northern California, Bullock Brothers Farm, Apprevecho Research Institute, City Design, Pah Tempe Hot Springs, and more. (6 units) Prerequisite FOR 101

SL 205 Physiology, Health, and the Environment: Maintain Perfect Health by Identifying Environmental Threats to Human Physiology and Learning How to Protect against Those Threats
Individual health is a microcosm of the health of the planet. To prepare students for creating a non-toxic, disease-free society, they will learn self-care. This course provides understanding of the different elements of the body and how to keep them balanced and strong. Health-care experts will teach useful information about one’s own body as it relates to health, longevity, relationships, family, and career. Rather than an in-depth anatomical analysis of the body, the emphasis will be on practical information, including identification of environmental threats to human physiology, and how to protect against those threats. Maharishi Consciousness-Based Health Care, the world’s oldest system of natural health care, will be prominently featured in the course. (4 units) Prerequisite FOR 101
SL 210 Ideal Human Relationships: The Basis of Harmonious Relations is Connecting Self-Knowledge with the Experience of the Self in Others — Giving is the Basis of Receiving
From friendships to business partnerships, marriages to parent-child connections, society is a network of relationships. This class will explore the various categories of human relationships and how each can be mutually rewarding and sustainable. Students will learn how to draw on their own inner reservoir of energy, to give the maximum to others without getting drained or overshadowed by circumstances. We will also look at conflict resolution and how to turn perceived enemies into friends. (4 units) Prerequisite FOR 101

SL 215 Critical Thinking: Accessing the Field of Pure Knowledge and Infinite Organizing Power as the Basis of Action, Achievement, and Fulfillment
Effective thinking is the extreme opposite of jumping to conclusions. This course will teach students to analyze a situation and understand all its circumstances. They will learn to zero in on the most useful information and then use it in a fair and logical way. The class will also explore the difference between fundamental, primary, and secondary choices. Much of the class time will be devoted to exercises that center on important issues in one’s own life. (4 units) Prerequisite FOR 101

SL 220 Leadership and Team-Building: Awakening Inner Silence as the Basis of Unifying Individuals into Powerful Teams Directed by Strong Leaders
Living in a sustainable manner requires a special kind of creativity — the ability to solve long-standing problems and integrate diverse areas of life. This course will expand one’s capacity for seeing new angles and finding innovative solutions. Students learn how to act in harmony with Nature’s laws and thereby achieve maximal results with minimal effort. They will gain thorough understanding of the creative cycle of germination, assimilation, and completion, and at the same time, learn the gentle art of inspiring and mobilizing others, including tools for motivating and harmonizing different personality profiles. (4 units) Prerequisite FOR 101

SL 225 Applied Systems Thinking: Drawing on Total Natural Law to Organize Divergent Perspectives and Promote Interconnectedness and Unity
A systems approach can be helpful in everyday situations involving people and technology where it is hard to know what to do because of a complex web of conflicting views and needs, a high degree of interconnectedness, and a high degree of uncertainty. This course offers solutions not by providing formulas or rules to follow, but by providing ways to understand and systematically work with situations that develop over time and which ultimately means operating more in accord with Natural Law. Learning to think and act systematically thus requires a fundamental change in patterns of thinking and behavior, which this course is designed to create in the student. Since systems concepts can be difficult to appreciate until applied in a variety of situations, the course structures proficiency in systems thinking by implementation of real-life solutions to problems of the student’s choice. (4 units) Prerequisite FOR 101
SL 275 Planning a Sustainable Family Farm: Natural Law as the Basis of Intelligent Planning
Although farming, like any business, has to manage the uncertainties of the market, it also has to deal with unpredictable weather and biological factors such as pests. That’s why intelligent planning is essential for success with a family farm, especially when it aims to minimize damage to the natural environment. Students will learn the basics of economic investments, farm assessment and inventory, and principles of planning, as well as what and how much to produce and how to produce it. In addition, they will be exposed to best management practices, investment evaluation, and the relationship between margin inputs earnings and costs. This foundational knowledge will enable them to plan a family farm with an elevated level of confidence. (4 units) Prerequisite FOR 101

SL 276 Biointensive Mini-Farming: Gaining Proficiency in Sustainable Farming to Create Vital Land, Individuals, and Communities
This “hands-on” course helps students learn a method of farming that they can implement themselves as a livelihood and/or teach to other individuals and communities, thereby helping to establish truly sustainable, ecological, and economical food production systems. They will cultivate their own 100 square-foot double-dug bed, grow 60/30/10 (carbon/calorie/vegetables) crops from seeds, and learn how to transplant, care for, and harvest them. They will also learn to calculate the amount of land, water, and resources needed to grow and provide the daily caloric and dietary allowance for a family and a community, and will discover the caloric value of different crops. In addition, students will gain knowledge in low-tech growing techniques, farming skills, and the history and philosophy of Grow Biointensive Organic Sustainable Gardening and Mini-Farming. (4 units) Prerequisite FOR 101

SL 277 Community Supported Agriculture 1
This course is the first in the 6-month track on sustainable agriculture. This track is centered on the concept of Community Supported Agriculture (CSA), which is thought to be the most economically rewarding and financially sustainable method of farming. CSA is also an effective tool for community rebuilding and local cultural and economic improvement. In this 6-month track students run and manage the Abundance Ecovillage CSA. Students will be involved in all aspects, including collecting payments from members, bookkeeping, crop planning, planting, growing, harvesting, distribution, composting, and more. The main goal is to give students the full experience of being an ecofarmer so that they have the knowledge and skills they need to set up and run organic sustainable community farms. Prerequisite: consent of the faculty

SL 278 Community Supported Agriculture 2
In this course the core group of students continues to perfect their sustainable mini-farming skills and operating the Abundance Eco-Village CSA farm. Prerequisite: SL 277

SL 279 Community Supported Agriculture 3
CSA track students remain in town during that summer break to keep operating the Abundance CSA. Prerequisite: SL 278
SL 280 Artisanal Foods and the Slow Food Movement: Returning to Real Food Based on Natural Systems of Preparation
Artisanal foods are lovingly handcrafted with traditional methods, and the Slow Food movement promotes the concept as a response to fast food industry. More than just preparing food slowly, artisanal food is all about quality, attention to detail, uniqueness, avoidance of synthetic ingredients, minimal processing, and sustainability in a way that enhances the pleasure and sensuality of life. This course will explore food and culture, the local production of foods that have a ‘taste of place’, and the creation of a local food economy. Using examples from France and Italy, it will examine public policy and marketing that makes artisan foods a normal part of life in these countries. Finally, students will cook and share meals that reflect what they are learning in class. The overall result will enrich their knowledge of quality prepared food as it applies to both the home and the commercial environment. (4 units) Prerequisite FOR 101

SL 281 Community Supported Agriculture 4
During this Forest Academy, while other students take regular FA classes, CSA track students will keep working at the farm operating the Abundance CSA. Prerequisite: SL 279

SL 282 Community Supported Agriculture 5
This is the last course of the CSA track. Students will keep perfecting their food growing skills with more emphasis on seed saving techniques. Prerequisite: SL 281

SL 285 The Local Economy Network: Engaging Local Natural Laws to Establish a Strong Local Economy
Does an economy based on consumption of local production have a place in a world increasingly preoccupied with globalization? A growing number of economists think it does. This course will explore current thought about creating community wealth through the local provision of basic products and services such as energy, food, water, building materials, clothing, and artisan products. Students will research the local community to develop a wiki that showcases local economy solutions like the Buy Fresh, Buy Local campaign. This hands-on work, combined with the foundational knowledge of local economics, will thus equip them with the know-how for setting up a local network vital to maintaining a sustainable community. (4 units) Prerequisite FOR 101

SL 320 Sustainable Woodworking: Using Natural Law to Promote Knowledge of Creation and Safety in Working with Wood
In this hands-on course students will learn the basics of working with wood. Safety will be a high priority as they learn how to use power and hand tools, techniques for gluing and joining wood, and sharpening. They will also learn tree identification, the uses for different woods, and the structure of the living tree and how it relates to the creation of wooden structures, both solid and plywood. The course will also cover sustainable ways to grow, harvest, and dry woods, and will include field trips to lumber mills. Overall, this class will teach students to be comfortable with the basics of working and designing with wood and to understand which environmental factors to consider when planning woodworking projects. (4 units) Prerequisite FOR 101
SL 326 High-Performance Green Building: Shaping the Future with Regenerative Design
Re-thinking the built environment is a prerequisite for a sustainable world. Buildings account for 50% of the energy flowing through the American economy, generating huge amounts of waste in the process. This course will thus feature regenerative design with buildings that create energy, purify wastes, and harvest rainwater. Topics include renewable energy systems, day lighting, use of local and natural materials, rainwater harvesting, and on-site waste treatment. In addition, students will get hands-on experience building energy simulation software and using local materials like straw bale, earth block, and natural clay plasters. The result will be fundamental knowledge about how to construct buildings that, like trees, give back more than they take from the environment. (4 units) Prerequisite FOR 101

Are sustainable and green building practices always healthy? Not necessarily, as students will learn in this course, which examines the link between building practices and occupants’ health and well being. Founded in Germany over 30 years ago, Building Biology not only encompasses sustainable and green practices, but also goes beyond them. It focuses on “building for life,” or how to optimize living conditions by applying healthy building and remodeling principles to living spaces. Students will find out how current construction practices impact the health of occupants and will gain skills to identify, analyze, and solve problems dealing with electromagnetic radiation, high-frequency radiation, indoor air quality, and water quality. They will also learn about natural building and remodeling practices through home inspections, case study reviews, and teleconferences with Building Biologists from around the country. (4 units) Prerequisite FOR 101

SL 330 Bio-Cultural Ethics: Preserving Cultural Integrity by Awakening the Field of Pure Consciousness as the Foundation of All Right Action
This course discusses the biological aspects of treating all people fairly regardless of economics, geography, or lifestyle. Is it ethical to genetically engineer a tomato and then sell it without informing the public? Is it appropriate to learn about medicinal herbs from native healers and then patent the active ingredients? Is it fair for the United States, with five percent of the world’s population, to use 25 percent of the world’s raw materials? Often questions of fairness extend to other life forms, and some issues are particularly difficult and nuanced: Damming waterways, for instance, generates clean, renewable energy, but it can also flood villages, upset ecosystems, and destroy fisheries. This class will teach students to think deeply and consider all sides of bio-cultural dilemmas, arriving at equitable, workable solutions. (4 units) Prerequisite FOR 101
This course will examine the relationship of human beings to the buildings they create. We will look at the key principles of Maharishi Sthapatya Veda design, as revived by His Holiness Maharishi Mahesh Yogi, including orientation, proportion, and spatial arrangement. The goal of this ancient science, to bring human life into accord with Nature’s intelligence, will be the focus of this course. At the same time, we will look at green buildings whose design allows them to draw on flows of renewable energy in their immediate environment. We will consider their beauty, functionality, and affordability, examining the materials used to accomplish these goals. The physics of energy and light flow will be reviewed, along with state-of-the-art methods for designing energy-efficient buildings and “tunneling through the cost barrier.” Laboratory sessions will center on methods and software for modeling building performance. (4 units) Prerequisite: FOR 101

SL 348 Sustainable Landscape Architecture: Using the Techniques of Natural Law to Create a Functional, Sustainable Built Environment
The way our built environment looks and feels is a product of human consciousness as manifested through the design and layout of the individual elements of Natural Law. Using the M.U.M. campus as a case study, you will learn how to implement the basic landscaping components of Maharishi Sthapatya Veda design in a way that minimizes the ecological impact of a site while maximizing its ecological value and aesthetic appeal. In the process, you will learn drawing techniques of the discipline, how to read a topographic map and use it to build a scale model, and how to choose appropriate trees and plants for specific locations and purposes. The result will be a deeper understanding of how to create environments that are efficient, beautiful, productive, and enjoyable in a sustainable way. (4 units) Prerequisite FOR 101

SL 350 Environmental Planning and Landscaping: Applying Natural Law to Sustainable Landscapes to Integrate Energy, Economy, Transportation, Mass Culture, and Food Production Systems
A built environment should have the stability, diversity, resilience, and beauty of a natural ecosystem. More than this, it should align our consciousness with all the Laws of Nature. This course will consider all the factors that go into a sustainable landscape, including consciousness, energy, economy, transportation, mass culture, and food production systems. The course will combine classroom and project-based learning to ensure integration of the core principles and practical skills with the Vedic perspective of life. Students will work in groups to design a fully sustainable eco-village for less than one thousand inhabitants. The course will combine the use of Vedic principles with “green” planning and development to provide the ideal environment for people to grow in consciousness and fulfillment. Students will learn how to combine the micro-environmental properties of a landscape with aesthetically pleasing structures that incorporate useful plants for managing rainwater and delivering perennial food crops. (4 units) Prerequisite FOR 101

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SL 351 Alaska Village Design: A Cross-Cultural Experience of Sustainable Development Planning
This course will take place in Angoon, a village in southeast Alaska that has been occupied by Native American Tlingit and Haida people for over 1000 years. Working in cooperation with members of the village, students will help them rethink how it is provisioned, and implement a plan to create a more sustainable, effective, and productive environment. In developing the plan, students will determine how to sustainably provide the village with water, food, energy, and building materials, in ways that create prosperity in the village. They will then work with the villagers to execute some part of the plan. The result will be will be not only increased knowledge about cross-cultural sustainable development but also practical experience in how to design and manage it. (4 units) Prerequisite: FOR 101

SL 398 Sustainable Living Internship: Experiencing On-the-Job Application of Natural Law at Environmental Places of Business
This course offers students the opportunity to work on farms, green companies or environmental organizations and apply knowledge from the classroom to real-life situations where sustainability is at the forefront. Venues range from the M.U.M. campus and farms to the Fairfield area, other areas of Iowa and out-of-state locations. While all internship units may be taken at one location, it is advisable to distribute the internships among several places of employment to get the broadest possible experience, greatly adding to a student’s sustainability credentials and post-graduate employment potential. (4 units per month, maximum of 16 units toward the Sustainable Living major) Prerequisite: consent of instructor and the Academic Standards Committee Prerequisite: FOR 101

SL 399 Directed Study (variable units) Prerequisite: consent of the department faculty Prerequisite: FOR 101

This course integrates the core principles and practical applications of ecology from the perspective of human consciousness. Students will learn how the Laws of Nature evolved the biosphere to provide a support system for the miraculous complexity of life. They will use their deep experience of consciousness to appreciate the power and majesty of nature, the primal forces that manifest creativity and intelligence in the universe. The course will expose the processes that make life what it is: so much more than a series of intricate, dynamic structures interlinked through constant flux and transformation. Much of the course is project based, so students will spend time in the field or performing research aimed at adding value to real-world developments. The course covers ecosystems functioning, speciation and interactivity, social interaction, natural selection, and adaptation in nature. (4 units) Prerequisite: FOR 101
SL 410 Sustainable Living Certification: Acquiring Training for Environmental Consulting and Certification of Natural Law-Based Operations and Buildings
As the demand increases for Natural Law-based technologies in the production of food, buildings, and other consumer goods, so does the demand for verification that acceptable environmental and health standards have been met during their production. That demand, in turn, calls for inspectors and consultants trained to critically examine these goods and services. This course offers the opportunity to acquire certification training in areas such as LEED (Leadership in Energy and Environmental Design), organic inspection, and Building (Bau) Biology. It can also include training in software competency such as Chief Architect. All of these certifications and competencies significantly enhance the student’s credentials and employability in the field of sustainability. Prerequisite: consent of the instructor (4 units) Prerequisite FOR 101

SL 411 Biodynamic Beekeeping
Organic honeybee keeping is an important art and science of sustainable living, and even more so today. This course will introduce students to the Biodynamic (BD) beekeeping method, based on Rudolf Steiner’s teaching. Being a spiritual and holistic method, biodynamic beekeeping emphasizes the well-being of the bee colony as a super organism and its natural life cycle, rather than maximizing the hive’s honey and pollen production. The first three days of this course will be taught by Gunther Hauk, who has over 30 years of experience in this type of beekeeping and is the founder and co-manager of Spikernard Farm, a 610-acre honeybee sanctuary in Illinois. During this two-week portion of the course, students will learn how to set up and manage a small Biodynamic apiary, assemble hives, become familiar with special terminology and practices, harvest honey, and more. The remainder of this course will be on the topic of setting up an organic certifying agency. Prerequisite: FOR 101

SL 415 Exotic Tropical Fruit Production: Enjoying the Fruit of Tropical Laws of Nature
Tree crops have always been a major part of human diet and culture. Tropical fruits are especially rich in diversity and present us with almost unlimited potential for food, medicine, raw materials and crafts, beauty, and a wide range of environmental stewardship. This course, held in a 150-acre organic farm in Homestead, Florida, will explore every aspect of organic cultivation and marketing of exotic tropical fruits, the plant-animal-soil connection, ecological pest and disease control, and the trials and rewards of tropical farming. It also includes field trips to local fruit related sites such as the Spice Park, Fairchild Tropical Gardens, and Kampong, lectures by experts in tropical agriculture, and hands-on experience in the propagation, tending, and harvest of organic tropical fruits, vines and bamboo. (4 units) Prerequisite FOR 101

SL 420 Renewable Energy: Drawing on Nature’s Creative Intelligence to Harness the Sun’s Infinite Capacity to Power Homes and Workplaces, Transportation, and Industrial Production
This course will redefine the understanding of energy, heat, and power by studying state-of-the-art technologies that can generate and use energy from sources that are both renewable and sustainable. The inefficiency of our modern industrial society will be
closely examined, with students learning to identify entropy in a system and find huge opportunities for improvements. Classroom sessions will also include films, slide presentations, demonstrations, presentations by students, and outside guest speakers. Besides lectures, films and demonstrations, the course will include field trips, a lab, and a project that will give students a chance to apply these technologies. Many classes will take place in a building that is powered by renewable energy, with students monitoring and operating the building energy systems. Each day, the design principles of systems based on renewable energy will be related to the Laws of Nature that structure our own awareness and govern the universe efficiently and automatically. Prerequisites: Math 170, Math 161, or MGT 314 or 424 (4 units)

**SL 421 Energy Policy for Sustainability: Exploring the Potential of Renewable and Sustainable Energy**
This course describes the issues revolving around energy that is not only renewable, but also sustainable, and explores its potential to replace traditional energy resources. In the process, it will identify issues about the provisioning, transportation, and production of renewable energy. Students will review issues concerning social acceptability, environmental impact and risk, and economic consideration of projects related to hydroelectric energy, small hydro, wind power, solar, geothermal, and nuclear energy. They will also identify and study the ways governments have begun to develop local, regional, national, and international policies about these issues through the use of case studies and critical thinking. (4 units) Prerequisite FOR 101

**SL 422 Solutions to Climate Change**
Climate change is an issue about which everyone should be fully informed and taking action. Intelligent and creative solutions are available and required immediately. Humanity is continuing to pollute the planet on a massive scale. This appears to be modifying world climates fast. The course will take a detailed and up to date look at the basic science and facts of climate change. Contentious areas and ranges of opinion will also be evaluated in their socio-economic context. Then a full range of solutions to climate change will be studied: elevation of world consciousness, improved global stewardship, increased energy efficiency, renewable energy and improved ecosystem management. Students' main project will be to design their own package of solutions. (4 units) Prerequisite FOR 101

**SL 428 Sustainable Living Workshop: Transforming Natural Law into Useful Application**
Manifestation of sustainable methodologies for immediate use is the purpose of this repeatable course. Students will work individually or in teams to build and implement technologies such as biodiesel production, photovoltaic panels, hydrogen electrolyzers, biomass heating units, methane digesters, or fuel cells. Projects can also include assisting with sustainable building construction, or production of websites or videos to display real-time building/performance indicators. (4 units, repeatable) Prerequisite FOR 101
SL 429 Sustainable Living Project Prep: Planning Your Personal Contribution to Life in Accord with Natural Law
This course is devoted to preparing you for the Senior Sustainable Living Project (SL 430). You will meet with faculty to research, discuss, and plan the project to ensure that it will unfold as smoothly as possible. (4 units) Prerequisite: Good academic standing and consent of instructor Prerequisite FOR 101

SL 430 Senior Sustainable Living Project: Applying Natural Law-Based Knowledge to Real-World Enterprises to Test Principles of Sustainable Technologies
In this final course you will apply what you have learned in the previous three years to a special senior capstone project. Under the guidance of faculty, you will design and implement some aspect of a sustainable community, using opportunities in the city of Fairfield, Maharishi Vedic City, Abundance Ecovillage (just north of Fairfield), or the Maharishi University of Management campus itself. The project may be an individual effort, or you may work together in small teams to produce a fitting tribute to the concept of Sustainable Living, one that will prepare you to take on real projects wherever you may choose to work. (4 units) (Can be repeated multiple blocks for credit) Prerequisite FOR 101

SL 445 Environmental Law: Connecting National Law with Natural Law to Protect the Environment from Global Warming, Pollution, and Resource Depletion while Creating Abundance for All Nations
From local regulations about water quality to global initiatives like the Kyoto Accord, the law is an important tool for regulating our use of the environment. During this course, students will become familiar with international treaties and protocols on global warming, pollution, and endangered species. The class will also study the key features of American environmental law including the Clean Air and Water Act, the Environmental Protection Act, and other current policies and regulations. Perhaps most importantly, students will understand the lawmaking process as a way to use the legal system to bring about positive change and build sustainable communities. (4 units) Prerequisite FOR 101

Biology Courses

BIO 250 Plant Biology: The Unity and Diversity of Plant Life — How Organisms from Bacteria to Fungi to Giant Redwoods Nourish, Enrich, and Integrate the Biosphere
Plants, the source of fixed energy for virtually all life forms, are the principal topic of this introductory course. The photosynthetic groups covered range from cyanobacteria through phytoplankton and seaweeds, to bryophytes, lower vascular plants, gymnosperms, and the flowering plants. Non-photosynthetic bacteria, fungi and fungal-like protists are presented as the great integrators and recyclers of nutrients in the global biosphere. Some basic concepts in the physiology, genetics, anatomy, ecology, and evolution of plants are also included. (4 units) Prerequisite FOR 101
BIO 260 Living Systems: How Life’s Dynamic Intelligence Applies the Principles of Biochemistry, Cell Biology, and Genetics to Uphold Self-Organization, Maintenance, and Evolution of Life
Fundamental to all life are basic functions that uphold self-organization, maintenance, and evolution. This course covers aspects of biochemistry, cell biology, genetics, and evolution. Emphasis is placed on the expressions of intelligence, order, and integration found at different levels of biological organization. (4 units) Prerequisite FOR 101

BIO 322 Plant Taxonomy: How the Description, Naming, Identification, and Classification of Plants is Grounded in Their Intelligence and Evolution
The classification of plants ultimately makes use of all that is known about their structure, physiology, genetics, and ecology to arrange them into a logical system for identification and study. This course, which emphasizes the local flora, develops skills in observation and interpretation to name, identify, and classify vascular plants according to evolutionary relationships. (4 units) Prerequisite: BIO 250

BIO 328 Ethnobotany: How Indigenous Peoples Use Plants for Culinary, Spiritual, Medicinal, and Other Purposes to Maintain Traditional Connections with Natural Law
Plants have met a large proportion of man’s physical, emotional, and spiritual needs for ages and continue to do so today, though often in new and less obvious ways. The broad scope of such use is the subject of this course, covering not only food and shelter but also clothing, herbs and spices, ornamentation, medicine, soaps, cosmetics, rope, and rubber, as well as artistic and spiritual uses. (4 units) Prerequisite FOR 101

BIO 338 Organic Agriculture: Nourishing Civilization through Production of Food Based on Features of Natural Ecosystems — Nutrient Recycling, Biodiversity, Maintenance of Healthy Soils, and Full-Cost Accounting
Only by aligning agriculture with Natural Law will poverty be removed from the world. This course will explore how this can be accomplished using the basic principles of Maharishi Vedic Organic Agriculture such as recitation of Vedic sounds at all stages of food production and the use of Maharishi Jyotish programs to determine the optimal times to plant, perform cultivation techniques, and harvest crops. It also includes general principles of organic agriculture production, such as transplanting, irrigation, fertility, pest management, harvest, storage, marketing, and environmental influences. Specific management requirements for important vegetable and field crops will also be discussed. Students spend approximately half of their time in class learning principles of vegetable production and half of the time applying their knowledge and gaining practical experience in the University’s vegetable gardens and greenhouses or other area organic farms. (4 units) Prerequisite FOR 101
Permaculture is the conscious design and maintenance of cultivated ecosystems. Permaculture promotes land use systems that work with nature’s rhythms and patterns to create a stable society by utilizing resources in a sustainable way. Through lecture, discussion, observation, field trips, hands-on learning, videos, slide shows, and handouts, the Permaculture Design course teaches the practical skills and theoretical knowledge to design and implement sustainable systems in harmony with the natural world so participants can understand and apply these methods and skills to their home property and local community. Participants will learn principles and methodologies of sustainable design, how to read the landscape’s strategies and tools for urban and rural homesteads, food forests and orchards, greenhouse operation, natural building and alternative energy techniques. (4 units) Prerequisite FOR 101

BIO 375 Earth Science: How Global Geo-Physiology Shapes the Evolving Biosphere, Driven by Its Internal Structures and Processes and Interacting with Life, Air, and Water
The earth is a dynamic, living system, driven by its internal structures and processes, and interacting with life, the air, and water. This course emphasizes the geological and biological processes responsible for landforms and the chemical compositions of soils, the atmosphere, and bodies of water. (4 units) Prerequisite FOR 101

BIO 380 Biology Research: Self-Discovery through Research in the Life Sciences — How to Solve a Biologically Based Challenge in a Sustainable System through an Individual Research Project
In this course students enrich the knowledge they have gained with practical experience in the techniques of modern laboratory research. With prior approval of the laboratory supervisor, students work in one of the following laboratories: biochemistry, neurophysiology, immunology, or aging and immortality. (4 units, may be repeated) Prerequisite: consent of instructor

BIO 399 Directed Study
(variable units) Prerequisite: consent of the department faculty

BIO 405 The Sustainable Global Environment: Elevating World Consciousness to Perpetuate Abundance and World Peace — Ideal, Natural Law-Based Solutions to Global Pollution, Natural Resource Depletion, Non-Sustainable Energy Use, Overpopulation, and Loss of Biodiversity
Structuring a living environment that can be maintained on a global scale for all future generations calls for substantial changes in our current way of life. This course provides a broad perspective for transforming the way we think about such issues as population growth, global ecology, land and wildlife resources, renewable energy sources, and sustainable agriculture. (4 units) Prerequisite FOR 101
**BIO 497 Internship in Teaching Life Sciences: How to Apply Natural Law to Teaching by Assisting with the Instruction of Selected Courses in the Sustainable Living Program**

This course is designed to allow advanced undergraduate students of good academic standing the opportunity to assist an instructor in teaching a biology course. It is especially recommended for those students who plan to go into a teaching career or who expect to help finance graduate work through teaching assistantships. In most cases it will involve helping the instructor with course planning, small discussion groups, homework and quiz grading, particularly in the first-year biology course. Some lecture preparation and presentation may also be included as a teaching experience. (4 units) Prerequisite FOR 101

**BIO 498 Internship in Agriculture: Practical Farming Experience Based on Knowledge of Natural Law Applied to Field Experience on Sustainable Organic Farms**

This course offers practical experience through work in the University’s vegetable farm or at another farm or farm business. Students will keep a journal in which they record the activities they have performed, what they have learned, what they have contributed, and suggestions they have for improvements in the farm or business. (4 units, may be repeated) Prerequisite: consent of the department faculty and the Academic Standards Committee
ROTATING UNIVERSITY

SPECIAL FEATURES

The Rotating University program offers courses of study abroad, usually of four to six weeks’ duration. The purpose of these courses is to develop “international citizens,” individuals capable of acting spontaneously in accord with the Laws of Nature in any culture. Most courses focus on academic topics relevant to the culture. Some include the study of local language and geography as well. In every course students learn to manage their daily study and travel within the laws and customs of a foreign country.

Past courses have ranged from biking and hiking through New Zealand; to visiting famous art museums and historic places of Italy; to exploring India, the Land of the Veda, to cruising the Greek islands, and touring the Greek mainland.

COURSES

HUM 230 Rotating University in Greece: Conceptions of the Good Life in Greek Thought
This course takes place on the Greek mainland, the Greek islands, and a cruise ship on the Aegean Sea. It combines an introduction to Greek culture and history with a specific focus on virtue and the good life in Greek thought. Students tour some of the most famous historical sites in Greece — the Parthenon in Athens, the Oracle at Delphi, the palaces of the Minoan civilization on Crete — and take the opportunity to experience the charm of contemporary Greek towns and the beauty of Greek beaches. For four days, the course is on a cruise ship that visits a number of famous Greek sites from antiquity. The intellectual thought of ancient Greece is very rich, serving as the source of much of the Western intellectual tradition. We read original works of some of the greatest Greek writers and thinkers, from the perspective of understanding the nature of the good life. We will also discover the profound parallels between ancient Greek thought and the insights of Maharishi Vedic Science. Both intellectually and experientially, this course provides an exploration of the good life. (4-unit course, including 2 units of General Education credit) Note: The content of this course is different from “The Good Life in Western Philosophy.”

HUM 232 Rotating University in Southern Africa: Politics, Culture, and Natural Heritage
This course introduces students to the complex geo-political realities of Southern Africa. The main issue addressed is how the region can make political and economic progress into the future, while preserving its rich cultural and natural heritage. Special attention is given to South Africa, where most of the time in the course will be spent, and to a new educational initiative in that country focused on educating the underprivileged and disenfranchised. Other countries studied include Botswana, Mozambique, Zimbabwe,
Zambia, Namibia, Angola, Tanzania, The Democratic Republic of the Congo, and Malawi.

**FA 229 Rotating University in Italy: Italian Art and Culture**
In this course, students visit the cultural centers of Italy, viewing Italian painting, sculpture and architecture. In addition, students learn beginning Italian, which they can use while experiencing the rich culture of Italy. We may visit several of the following historical locations: Lake Como, with trips to Bellagio, the Villa Balbianello, and the Villa Carlotta; Milan, home of the Last Supper by Leonardo da Vinci, the Gothic Duomo, La Scala opera house, and the Galleria Vittorio Emmanuele II; Venice, where students take gondola rides down the grand canal and visit the Basilica di San Marco, the Accademia, and the Peggy Guggenheim Museum of Modern Art; Florence, the cradle of the Renaissance, where students see the Duomo, the David by Michelangelo, the Convento di San Marco, and the Uffizi Gallery; Rome, where the group visits the Sistine Chapel, St. Peter’s Basilica, and the Piazza Navona. Students also visit smaller Tuscan villages, such as San Gimignano, Siena, and the Cinque Terre, overlooking the Mediterranean Sea.

The focus of the course is on the Renaissance, the cultural and artistic awakening of the fifteenth and early sixteenth centuries, which is often thought to form the foundation for modern Western culture. We study the art of the great masters of the Renaissance, including Michelangelo Buonarroti, Leonardo da Vinci, Raphael, Botticelli, Filippo Lippi, Brunelleschi, Fra Angelico, Giberti, Giotto, and Donatello. (4 units)

**ESS 325: Rotating University in Australia: Leadership in Adventure Sport**
This is a leadership training course in Australia and all students will take an active part in the leadership of the course. We actively interact with local cultures and ecosystems. We will travel by a combination of transportation ranging from bicycle, car, train, and bus, to boat. Every 2–3 days we will stop for another adventure, such as surfing, snorkel diving, hiking, mountain biking, sea kayaking, and white-water kayaking/rafting. This will be a self-sufficient trip where we will tent and prepare our own food as we travel. Australia is a large country so we will travel by motorized transportation on many occasions as we move between ecosystems. (4 units)

**ESS 325: Rotating University in New Zealand: Leadership in Adventure Sport**
New Zealand is the setting of this leadership training course, and follows the same format and activities as the Australian excursion (see above), except that New Zealand’s size makes this trip a compact adventure lover’s paradise, so we will travel by bicycle as much as possible. (4 units)

**LIT 410 Rotating University in Italy: Travel Writing**
From Mark Twain to John Steinbeck, some of the world’s most admired writers have found inspiration in the topic of travel. In this course students learn the conventions of travel writing as they visit the following locations in Italy: Lake Como, with trips to Bellagio, the Villa Balbianello, and the Villa Carlotta; Milan, home of the Last Supper by Leonardo da Vinci, the Gothic Duomo, La Scala opera house, and the Galleria Vittorio
Emmanuele II; Venice, where students take gondola rides down the grand canal and visit the Basilica di San Marco, the Accademia, and the Peggy Guggenheim Museum of Modern Art; Florence, the cradle of the Renaissance, where students see the Duomo, the David by Michelangelo, the Convento di San Marco, and the Uffizi Gallery; Rome, where students visit the Sistine Chapel, St. Peter’s Basilica, and the Piazza Navona. Students also visit smaller Tuscan villages, such as San Gimignano, Siena, and the Cinque Terre, overlooking the Mediterranean Sea.

Course work includes reading examples of popular travel writing on Italy. By analyzing the work of top travel writers and through in-class writing workshops, students become familiar with techniques of travel writing and learn to apply them in their own writing. As students visit cultural centers in Lake Como, Venice, Florence, Rome, Tuscany, and the Cinque Terra on the Mediterranean Sea, they record their personal observations of Italian people, places and daily life in a travel journal. The course culminates in the writing of a personal travel essay. (4 units)

MVS 485 Rotating University in India — Land of the Veda: The Blossoming of Total Knowledge for Permanent World Peace
This course explores the nature of Total Knowledge and the sequential unfoldment of Maharishi’s teaching, from his original inspiration to spiritually regenerate the whole world to current global programs to create prevention-oriented, problem-free administration and permanent world peace. Students visit places in India where Maharishi himself taught or established important centers of learning. They also enjoy Maharishi’s taped lectures, Sanskrit recitation, and presentations by leaders of the Indian Transcendental Meditation program Movement. Sites visited in recent courses include Mumbai, Thiruvananthapuram, Kanyakumari, Chennai, Varanasi, Allahabad, Jabalpur, Bhopal, Haridwar, Rishikesh, Maharishi Nagar, and Delhi. (Repeatable; variable units)

MVS 485 Rotating University in Switzerland: Reading the Vedic Literature
In this course, students read the Vedic Literature in Sanskrit and view videotapes by Maharishi on the Vedic Literature from the unique videotape collection available only in Seelisberg. Students live in Maharishi European Research University, located in the Swiss Alps high above Lake Lucerne. Formal class is held in the morning, and in the afternoon students take group excursions to experience the beauty of Switzerland. Boat rides on Lake Lucerne include visits to Weggis, Vitznau, Brunnen, Lucerne, Herchenstein, Stans, Buochs, and Engelberg. Students also climb alpine paths around the lake and take lifts to famous peaks, such as Rigi, Pilatus, Mount Titlis, and Stanserhorn. (4 units)
CONTINUING EDUCATION COURSES

On-Campus Credit Courses
Non-degree-seeking students who wish to take courses for academic credit may do so by applying to and registering through the Enrollment Center. In this way, one may take a regular undergraduate or graduate course without enrolling for an entire semester. Two policies guide credit courses taken through the Department of Continuing Education.

1) The Science of Creative Intelligence (SCI) course (FOR 100 or FOR 500) is the first course our degree-seeking students take when they enter the University. When taking credit-bearing courses through Continuing Education, it is recommended that students take this course first. However, students may take a maximum of eight units of course work before they are required to enroll in the SCI course.

2) A maximum of 8 units taken through Continuing Education may later be applied to a degree program.

Students are automatically enrolled in the group practice of the Transcendental Meditation program (RC 320) or the TM-Sidhi program (RC 332) for each academic block they are enrolled in class. For details of these courses, please refer to the Department of Maharishi Vedic Science section of this Catalog.

Tuition, Withdrawals, and Refunds for Credit Courses
The tuition for both undergraduate and graduate courses is $350 per unit. Housing and meals are $200 per week or $750 per month. MVS 100: Transcendental Meditation Technique has an additional tuition of $2,500.

Withdrawal Policy for On-Campus Credit-Bearing Courses
1) To withdraw from the course before it has started, notify the Enrollment Center.
2) To withdraw after a course has started, fill out a Withdrawal Petition together with the course instructor within three days of the last day of class attended. Please give complete information including the reason for withdrawal and the last date of class attendance.
3) It is your responsibility to inform your instructor of your intention to withdraw within three days of the last day of class attendance. If you are absent longer than three days, the instructor may assign a grade of NC.

Refund Policy for On-Campus Credit-Bearing Courses
If it becomes necessary to withdraw from a course, follow these procedures to apply for a refund:
1) Be sure to complete a course withdrawal form with your instructor within three days of the last day of attendance. Refunds are based on the last date of class attendance.
2) File a request for refund at the time of withdrawal from the course at the Enrollment Center. Refunds are given only to those who officially withdraw from a course within three days of the last date of class attendance.
Refunds are calculated according to the following policies:
1) If students cancel registration on or before the second day of class, a full refund is given, minus a fee of $35.
2) If students stop attending the course before 25% of the class is completed they are eligible for a 50% refund minus a fee of $35.
3) If students withdraw from a course after 25% of the class is completed there is no refund of tuition.

On-Campus Noncredit Courses
Maharishi University of Management also offers a wide variety of educational programs that do not carry academic credit although in some cases these courses can be used to fulfill the requirements for in-service and professional credit. These programs are designed to meet educational demands as they arise. Examples of courses that may be offered from time to time include:

• Maharishi Vedic Science and Technology — Consciousness-Based education program, Sanskrit, and Vedic Management
• Maharishi Gandharva Veda Music
• Exercise and sports
• Art — watercolor, sculpture, and ceramics
• Desktop publishing and computer use
• Digital Media
OTHER PROGRAMS

Researcher-in-Residence
Students who are working on an M.F.A. portfolio or who are in the research or writing stage of a doctoral dissertation at another university and wish to do research under the guidance of a member of the faculty may apply to the Researcher-in-Residence program. Applicants should submit an application along with a written research proposal and a letter from a faculty member who has agreed to supervise the research. The research proposal should provide the details of the proposed activity for the full period of enrollment. Final acceptance to this program is based upon approval of the application by the Dean of Faculty. Students may participate in this program for up to one year.

Graduate Fellowship Program
The graduate fellowship program is a non-degree program available to individuals who already hold a master’s degree and who wish to pursue full-time study for a period of at least six months in a field for which they are qualified and have shown a strong interest. The applicant must be approved by a sponsoring academic department and by the graduate school prior to acceptance. The program of study must have clearly delineated objectives, and the methods for accomplishing the objectives and for evaluating the performance of the student must be well defined. The study may take place either on or off the campus, but should encompass at least 35 hours of study per week. The graduate fellowship program is generally offered in conjunction with an institution or agency sponsoring the study. A student may participate in this program for a maximum of seven years.

Super Radiance in Residence Program
This program is designed to allow individuals the opportunity to take part in both the University’s Super Radiance program and a special evening series entitled “Knowledge for Enlightenment.” Participants in the Super Radiance in Residence (SRR) program live in University housing, either in the dormitories or in Utopia Park, a mobile home park at the north end of campus. They are required to participate in the Super Radiance program sessions and are entitled to attend the “Knowledge for Enlightenment” program series given each evening.

Room and board costs vary with the type of housing chosen. Please contact the Office of Admissions for further details.

Research in Consciousness Program
This credit program is available to everyone in the community who participates daily in the Transcendental Meditation and TM-Sidhi programs. Students in this program participate in the Super Radiance program sessions and are entitled to attend the “Knowledge for Enlightenment” program series given each evening.
First Year Only Program
Anyone who wants to take advantage of the University’s unique approach to interdisciplinary study can do so through the “First Year Only Program.” This individualized program offers the advantages of a Maharishi University of Management education to all those who do not wish to enroll as degree-seeking students. Credit is generally transferable to other universities.

Students in this special program generally begin their studies with the Science of Creative Intelligence course (FOR 100), which introduces the true interdisciplinary basis for studying all the fields of knowledge — located in the inner intelligence of the knower. As they study a wide range of fields — from business to art to computer science — students feel at home with every subject as an expression of their own intelligence.

Junior Year Program
Students enrolled in degree programs at other universities are invited to attend Maharishi University of Management for their junior year and add the holistic benefits of the University’s program to their educational experience. Individually tailored, the Junior Year program generally includes some first-year courses, course work in any of the upper-division major programs, the Science of Creative Intelligence course (FOR 100), and one Forest Academy. A half-year program is available for those who cannot stay for a full academic year.
ACADEMIC POLICIES

GRADUATION POLICIES

The faculty of Maharishi University of Management determine whether students are qualified to graduate. Qualifications are based on the following factors: satisfactory completion of all academic requirements as described in the certificate or degree requirements listed below, the specific requirements for the student’s major or program (listed under “Academic Programs”), and success in meeting the University’s standards of holistic student development.

At least three days before graduation, students’ records must be complete with the Registrar and indicate the following: all academic requirements for their degree program have been satisfied, final grades are on file, all fees and charges incurred have been paid, and an “Application for Graduation” was submitted at least 90 days prior to graduation. Among requirements that must be completed before graduation is the undergraduate assessment program administered by the Office of Evaluation.

Students whose academic records are not complete by three days before the graduation ceremony are ineligible to participate in the ceremony or receive their degrees. They must reapply for the next graduation. Degrees are awarded twice a year, at the end of each semester. One graduation ceremony is held each year, at the end of the spring semester.

General and core curriculum graduation requirements for each student are determined by the Catalog in effect when they begin studying at the University. Major and minor requirements are determined from the Catalog in effect when the student begins their major or minor. Please see the Graduation Director in the Enrollment Center if you have any questions about graduation requirements.

DEGREE REQUIREMENTS

Requirements for a Bachelor’s Degree

A minimum of 166 semester units of course work, including Research in Consciousness (RC) and transfer credit, is required for students to graduate with a bachelor’s degree. Within these units students must fulfill the following requirements:

General Education Requirements

First-Year Courses

FOR 101 The Science and Technology of Consciousness (This is the first course taken at the University and is a prerequisite for all other courses.)
PHYS 110 Foundations of Physics and Cosmology
PH 101 Physiology Is Consciousness
WTG 191 College Composition 1 (may be waived based on the results of a diagnostic assessment)
WTG 192 College Composition 2 (Students may petition to waive based on transfer credits.)
FOR 103 Health-Related Fitness
MGT 405 Cross-Cultural Communication
Plus a mathematics course to meet the math distribution requirement of MATH 153 or higher

Distribution Courses:
4 units from Fine Arts
4 units from Humanities
4 units from Applied Social Sciences
4 units from Natural and Applied Sciences
4 units from Mathematics

Specific Courses That May Be Used to Satisfy Distribution Requirements

Fine Arts (4 units)
Any writing course numbered higher than 192
Any music course numbered higher than 199
FA 201 Art in Nature
FA 301 Drawing 1
FA 311 Painting 1
FA 341 Ceramics 1
FA 351 Sculpture 1
ESS 332 and 333 Movement and Improvisation I and II
ESS 337 Introduction to Physical Theater
SL 320 Sustainable Woodworking

Humanities (4 units)
Any literature course
CMM 300 Narrative
FA 203 Understanding Art
FA 229 Art and Culture (Rotating University)
FA 381, 382, 383, 384 Art History I, II, III, IV
HUM 231 Great Civilizations
MVS 225 or MVS 226 if not applied to first year electives
SL 215 Critical Thinking

Applied Social Sciences (4 units)
Any education, business, or government course
Many Sustainable Living courses including:
SL 210 Ideal Human Relationships
SL 220 Leadership, Team-Building, and Creativity
SL 325 Green Real Estate Development
SL 330 Bio-Cultural Ethics
SL 346 Vedic Architecture and Green Architecture
SL421 Energy Policies
SL 445 Environmental Law
SL 350 Environmental Planning and Landscaping
MVS 308 Research Design
MVS 309 Peace Studies
MVS 555: Ideal Administration
Any ESS Leadership course

Natural and Applied Sciences (4 units)
Any computer science, biology, chemistry, Physiology and Health, or any physics course other than PHYS 110
Some Sustainable Living courses including:
SL 200 Field Ecology
SL 205 Physiology, Health, and the Environment
SL405 Ecology
SL 420 Renewable Energy
SL422 Solutions to Climate Change
ESS 336 Movement Science

Mathematics (4 units)
Any mathematics course numbered 153 or higher
MGT 424 (previously MGT 314) Statistics if a student has been placed by the Department of Mathematics higher than MATH 153 or has taken Math 170.

Maharishi Vedic Science (4 units)
MVS 202 Higher States of Consciousness (4 units)

MGT 346 Career Strategies (2 units) (taken in the third year)
MGT 405 Cross-Cultural Communication (2 units) (taken in the first year)
MVS 475 Senior Capstone (2 units) (taken in the fourth year)

Forest Academies
One Forest Academy each semester enrolled for at least 4 blocks of classes
(Students enrolled one year or less may not miss any Forest Academies. Students enrolled 1 1/2 years or longer may miss one Forest Academy.)

Research in Consciousness (RC) Courses
Completion of each semester’s Research in Consciousness course with a grade of P or higher (Students are automatically enrolled in RC 320 or RC 332 for each block they are enrolled in an instructional course.)
Major
Completion of requirements for a major field of study, listed under “Academic Programs.” (A maximum of 50% of the units in a major may be transferred.)

Instructional Grade Point Average (GPA)
Cumulative instructional GPA of 2.0 or higher

Recreation
Completion of Forest Academy course entitled “Health Related Fitness”
Participation in four hours of dynamic physical activity each week and completion of a fitness assessment each semester.
(Students 35 years of age or older on entry to the University are exempt from the weekly activity and the fitness assessment requirement.)

Assessment Tests
Assessment tests are required both upon entry to the University and during the student’s Senior Capstone course.

Mathematics Placement Policies
On entry into Maharishi University of Management, every entering and readmit student is required to take a comprehensive placement test in mathematics, with the following exceptions:
• Students who have been granted by M.U.M. transfer credit for Math 162 Functions and Graphs 2 or any course for which Math 162 is prerequisite,
• Students who have submitted to M.U.M. an official score report of advanced placement in calculus or statistics,
• Students who have submitted to M.U.M. a high school transcript showing that they passed a course in calculus,
• Students who are readmitted to Maharishi University of Management after an absence of five years or less.
Students may request one opportunity to place higher than they did on the comprehensive placement test by taking a placement test in a specific course. The placement test to satisfy prerequisites to a specific course must be taken at least one month prior to the beginning of the course for which it is prerequisite.

Initial placement testing in mathematics takes place during the first six weeks after arrival at M.U.M. Students who miss the comprehensive placement test when they first enroll must take it by the end of their first year.

If a student places lower on the test than the level of their transfer credit, transfer credit is maintained to satisfy the graduation requirement of a mathematics distribution course. However, students need to pass at the appropriate level to meet the prerequisite for a specific course.

Mathematics placement is based on
1. Transfer credit from another university or college.
2. Advanced placement for any of the following:
   a. A score of 4 or above in College Board Advanced Placement Calculus AB or BC or Statistics
   b. A score of 60% or above in the CLEP Calculus Test
   c. A score of 5 or higher on IB HL math exam
3. Passing a course in calculus in high school (no units of credit are given)
4. Taking a placement test given by the Department of Mathematics (no units of credit are given).

Requirements for a Certificate

Forest Academies
Required course:
FOR 101 The Science and Technology of Consciousness or FOR 100 Science of Creative Intelligence (This is the first course taken at the University and is a prerequisite for all other courses.)
plus an additional Forest Academy for each semester in which the student is enrolled for at least 4 blocks

Students at the University 1 1/2 years or longer are allowed to miss one Forest Academy during their certificate program.

Research in Consciousness (RC) Courses
Completion of each semester’s Research in Consciousness course with a grade of P or higher (Students are automatically enrolled in RC 320 or RC 332 for each block they are enrolled in an instructional course.)

Instructional Grade Point Average (GPA)
Cumulative instructional GPA of 2.0 or higher

Program Requirements
Completion of requirements for a specific certificate, listed in “Academic Programs”

Requirements for a Master’s Degree

Forest Academies
Completion of the following:

FOR 500 Science of Creative Intelligence: 33-Lesson (This course is the first course taken at the University and is a prerequisite for all other courses.)

plus an additional Forest Academy for each semester in which the student is enrolled for at least 4 blocks

• Students in one-year programs may not miss any Forest Academies.
• Students in 1 1/2-year or longer programs are allowed to miss one Forest Academy during their master’s degree program.
• Students in nonstandard programs may have different Forest Academy requirements.

Research in Consciousness (RC) Courses
Complete each semester’s Research in Consciousness course with a grade of P or higher (Students are automatically enrolled in RC 520 or RC 535 for each block they are enrolled in an instructional course.)

Instructional Grade Point Average (GPA)
Cumulative instructional GPA of 3.0 or higher

Program Requirements
Requirements for a program of study, listed in “Academic Programs,” which may include completion of one of the following:

1) Thesis with an oral examination
When a thesis is part of the planned program, students consult with the department in the selection of a faculty member who is willing and able to direct the research and the writing of the thesis. The director may or may not be the original departmental academic advisor. • A minimum of eight units in master’s thesis research is required; these units count toward the minimum number of units for the degree. • Some departments may require more than eight units of master’s thesis research. The maximum number of units that may be earned in master’s thesis research is determined by each department. • The thesis must be acceptable to the student’s thesis director. • The thesis must be organized, typed, duplicated, and bound according to regulations prescribed by the Graduate School. An abstract of the thesis not exceeding 150 words must also be prepared. • Students in a thesis program are required to pass an oral examination on the thesis.

2) Comprehensive examination
The comprehensive examination for the master’s degree may be in the form of a written or oral examination. The date for the examination is scheduled by the department. The student must be registered during the term in which the examination is taken.

3) Integrative final project with an oral presentation

Requirements for a Doctoral Degree

Forest Academies
Complete the following:
FOR 500 Science of Creative Intelligence: 33-Lesson (This is the first course taken at the University and is a prerequisite for all other courses.)
plus an additional Forest Academy for each semester, regardless of the number of units taken in the semester
(Students are allowed to withdraw from one Forest Academy during their doctoral program.)

**Research in Consciousness (RC) Courses**
Completion of each semester’s Research in Consciousness course with a grade of P or H (Students are automatically enrolled in RC 320 or RC 332 for each block they are enrolled in an instructional course.)

**A grade of “B” or higher in all instructional courses**

**Core Curriculum**
Completion of core curriculum for a specific program of study, listed in “Academic Programs”

**Comprehensive Exam (if applicable to the program)**
This examination is taken after completion of the core curriculum in each program. Based on the results of this exam, the student may be awarded a master’s degree. The student must be registered during the block in which this examination is taken.

**Qualifying Exam**
This examination assesses the ability of the student to pursue doctoral research. (This examination should also cover any core curriculum beyond the master’s level for doctoral programs requiring a master’s degree for admission.) On the basis of successful completion of this examination, the student is advanced to candidacy for the doctoral degree.

**Advisory Committee**
This committee, formed by each doctoral student, should have at least four members including: the thesis advisor, a faculty member from the student’s department, a faculty member from Maharishi University of Management but another department, and one faculty member from another university or research institution. The membership of the advisory committee must be approved by the director of the doctoral program and the Dean of the Graduate School.

**Dissertation Proposal**
The dissertation proposal is approved by the student’s advisory committee and the Dean of the Graduate School.

**Teaching and Research Experience**
All doctoral students who have passed their oral qualifying exams are asked to help teach courses and/or help as research assistants. These activities give the student necessary experience in teaching academic courses and in conducting research — two necessary skills in the career path of Ph.D. graduates. Students
who have reached the candidate stage are awarded Ph.D. assistantships, which entail this teaching or research.

**Advanced Course Work**

Advanced courses will be prescribed by the thesis advisor and advisory committee to ensure that the student will have comprehensive knowledge of a major field and related subjects. The courses the student is required to take will depend upon prior academic background in relation to the selected graduate program and area of research interest.

**Original Research for a Dissertation**

Each student working toward a doctor of philosophy degree must conduct original research as the basis for a dissertation that makes a significant contribution to knowledge. The research is to be under the guidance of the thesis advisor and the advisory committee, and requires their approval. All doctoral students must be registered during each block in which they are working on their doctoral dissertation, whether or not they are in residence on campus. It is the policy of the University to permit and facilitate dissertation research by international students in their home countries, whenever feasible.

**Written Dissertation and Abstract**

The dissertation must be organized, typed, duplicated, and bound according to regulations prescribed by the Graduate School. An abstract of the dissertation, not exceeding 350 words, must also be prepared. • The student must submit to the major professor copies of the dissertation and abstract for approval before submitting the document to other committee members. • The dissertation must be in completed form, typed with finished diagrams, etc. However, it will not be bound. The committee members should review the document and give their comments in a timely fashion—within two weeks. After incorporating all comments, the student will send updated copies of the manuscript to all committee members two weeks before the oral examination is scheduled. • When the dissertation committee has reviewed and approved the dissertation and the student has passed an oral examination in its defense, the student shall incorporate in the dissertation any recommended changes and corrections before submitting it to the Library. • The student must submit to the Library a final unbound copy of the dissertation and abstract, an additional copy of the abstract, the microfilming and binding contract, the microfilming and binding payment receipt, and the required forms by the date established by the Graduate School—two weeks before graduation.

**Oral Defense of the Dissertation**

The oral examination in defense of the dissertation will be conducted and evaluated by the dissertation committee supplemented, at the discretion of the Dean of the Graduate School, by additional appointed faculty members. • The examination will be scheduled for a date not earlier than two weeks after the dissertation and abstract have been submitted to the major professor and
dissertation committee. The student must be registered during the block in which the final oral examination is taken.

**Microfilm and Publish the Dissertation**
All doctoral dissertations submitted to the Graduate School must be microfilmed. The University subscribes to the service offered by University Microfilms International.

- Two copies of the dissertation will be put in the Maharishi University of Management Library and will be available for interlibrary loan. The abstract will be published in Dissertation Abstracts, which will announce the availability of the dissertation in film form.
- The microfilming and binding fee required of all doctoral students submitting dissertations will cover the cost of the library microfilm copy, binding, and the publication and distribution of the abstract. The student may order additional bound copies through University Microfilms International.
- An extra fee is charged if the dissertation is to be copyrighted. Information about the amount of this fee and method of payment may be obtained from the Graduate School. The University considers microfilming a form of publication; this does not, however, preclude publication of the dissertation in a journal or monograph, either in whole or in part.

**GENERAL POLICIES**

**Transfer Credit Policy**

Transfer-out Credit:

Maharishi University of Management uses a semester system with academic units equal to standard semester credit hours.

Transfer-In Credit:

- Undergraduate degree students can apply to transfer units to cover general education requirements and electives as well as up to half the course work in the major, for a maximum of 100 total semester units. Transfer credits are accepted for courses completed with a grade of “C” or higher on a course-by-course basis from accredited colleges and universities, and from other institutions with the approval of the Registrar. Students apply to the Graduation Director for evaluation of transfer credit. M.U.M. has an unusually long academic year of 42 weeks instead of the standard 32, and we require 166 semester credit hours to graduate rather than the typical 128. So that transfer students coming to M.U.M. are not unduly held back in the progress toward obtaining a degree by their decision to transfer to this university, M.U.M. increases transfer credit from other semester-based institutions by 4/3 to compensate for the shorter academic year elsewhere. For the same reason, we convert transfer credit from quarter-hour institutions using formula of 1 quarter hour = 8/9 MUM semester hours (4/3 x 2/3 hours)
• Transfer credit may be applied to the distribution requirement.
• Transfer credit may be applied to fulfill the writing and mathematics requirements.
• Transfer students must apply for a transfer credit evaluation before the end of their first semester.
• For undergraduate students awarded at least 64 units of transfer credit, general education and distribution requirements are reduced. The reduced requirements are as follows:

General Education Courses:
FOR 101 Science and Technology of Consciousness
PH 101 Physiology Is Consciousness
PHYS 110 Foundations of Physics and Cosmology
MGT 346 Career Strategies
MVS 475 Senior Capstone

Distribution Courses
4 units from the Fine Arts or Humanities
4 units from Applied Social Sciences
4 units from Natural and Applied Sciences or Mathematics
MVS 202 Higher States

Residency Requirements — Undergraduate students must take at least 60 semester units of instructional course work (1 1/2 years) in residence for a bachelor’s degree. For a master’s degree, at least 50% of instructional course work must be taken in residence. For doctoral programs, at least 80 semester units of instructional course work (two years) must be taken in residence. Exceptions to the residency requirements may be made for undergraduate programs with the approval of the Registrar and for graduate programs with the approval of the Registrar and the Graduate Committee.

Time Limits on Degrees
Undergraduate degrees: There is no time limit. However, for those receiving financial aid, restrictions apply. Contact the Enrollment Center. Students leaving the University for more than one year will be under the new graduation requirements listed in the current Catalog when they return to the University. Returning students who completed first year requirements when first enrolled may petition the Academic Standards Committee to have new first year requirements waived after meeting with the Graduation Director to determine that the former first year requirements were met.

Master’s degrees: All requirements must be completed within five years from the time of first enrollment in the program. Other restrictions apply for those receiving financial aid. Contact the Enrollment Center.

Doctoral degrees: Qualifying examinations are usually taken within 1 1/2 years of completion of the core curriculum. The maximum allowable time is 2 years. After the qualifying exam is completed, students may take up to seven years to write and defend the dissertation proposal, conduct research, write, and defend the final dissertation. If students pass the seven-year mark, they will need to petition to continue with their
dissertation stating (1) reasons for the delay in their progress, and (2) a target date for finishing.

**Credit by Examination:** Undergraduate students who earned credit by examination through the College-Level Examination Program (CLEP) or College Board Advanced Placement (AP) or International Baccalaureate and whose scores are 4 or higher for AP and 50 or higher for CLEP, or 5 or higher for IB Higher Level exams may receive four units of credit for each exam up to a maximum of 38 units. This credit may be used to waive courses at Maharishi University of Management as appropriate. Graduates of Maharishi School of the Age of Enlightenment or the Ideal Girls School may receive 2 units of Advanced Placement credit for each year of attendance at Maharishi School or the Ideal Girls School for 10th grade through 12th grade.

**Second Bachelor’s Degree**
Students with a prior bachelor’s degree may enroll for a second bachelor’s degree. They may transfer up to one-half of the courses in the major on a course-by-course basis, but the unit requirement for the major remains the same.

Students with a prior degree from Maharishi University of Management need only complete the major and any graduation requirements that have been added since they last attended the University.

Students who do not have a previous degree from Maharishi University of Management must complete the following:

a. The requirements of their new major (up to one-half of the units may be transferred)
b. A minimum of one-and-one-half years on campus
c. FOR 101 The Science and Technology of Consciousness (*This is the first course taken at the University and is a pre-requisite for all other courses.*)
d. MVS 202 Higher States
e. One Forest Academy for each semester enrolled at least four blocks
f. Senior assessment testing is not required

**Second Master's Degree**
Students with a prior Master's degree may enroll for a second if the degree is in a different field, or, with the approval of the academic department, if the degree is in the same field but with a different emphasis

**Second Ph.D.**
Students with a prior Ph.D. or professional degree who wish to pursue a Ph.D. program should follow these steps to determine their academic program:

- Admission is determined by the respective department.
- A major advisor and an advisory committee (three members) are selected following the same criteria that are applied for other Ph.D. committees, and the academic program is developed in consultation with the student.
• The academic program is submitted for review to the Graduate School following its development by an advisory committee from the department. A copy of the advisory committee report must be attached.
• This review includes the appropriateness of the advisory committee membership, the academic program, and the transfer of courses or degree credits from one program to another.

Examinations
Students are not permitted to take examinations early. All students are required to complete each course fully, including taking the final examination on the date scheduled. Exceptions may be made for compelling reasons only. Students must have the prior approval of both the course instructor and the Academic Standards Committee before finalizing travel plans. Students should submit a “Petition to Academic Standards Committee” and include a note of approval from the course instructor before the final week of the course.
The same policy applies to taking examinations after the last class session — prior approval must be secured from the course instructor. The instructor will then give a student a grade of “I” (Incomplete) until the exam is completed. Then, the instructor will officially change the grade with the Registrar.

Late Work
Students may not hand in work after the last class session of a course unless they have made prior arrangements for a grade of “Incomplete” (see “Incomplete” below) with the course instructor. Depending on the amount of work a student has yet to do, the faculty may elect to reduce the grade proportionally or give the student an “NC” instead of an “I.”

Appeal of a Grade
A student who wishes to appeal a grade given in a course should first speak to the professor about the grade. It is helpful for this meeting if the student can bring all work done for the course to the professor. If the outcome of this discussion is not satisfactory, the student should speak to the Department Head. If this is not satisfactory, or if the Department Head is the professor, the student should appeal to the Dean of the College of Arts and Sciences (for undergraduate courses) or the Dean of the Graduate School (for graduate students). The Dean will appoint an ad hoc committee to evaluate the student's appeal. If the student is not satisfied, an appeal may be made to Executive Vice President, whose decision is final.

Student Records
Students have the right to view their records at any time. They must contact the Enrollment Center to make an appointment. Any documents to which the student has waived the right of access will be removed from their file before viewing is permitted. Please see the University’s website, www.mum.edu, for the University’s FERPA policies.
Students may request copies of their records (other than transcripts) at 10¢ per page. Academic transcripts from the University are available at $10 for the first copy. Transcripts from other U.S. schools cannot be copied; the student must order them directly from the other schools. Original copies of transcripts from schools outside of the U.S. can be returned to the student and copied for our records for $1 per page.

**Academic Transcripts**

An academic transcript is the complete record of a student’s academic life while at the University. It reflects all course work, grades, major areas studied, degree(s) received, and academic progress. Students may request their academic transcript at any time from the Enrollment Center by using an “Academic Transcript Request” form, or other written request. Your signature is required on your written or faxed request before the Enrollment Center is able to release a transcript. Please include the following information in your request: name, former names, Student ID number, dates of attendance, address where you would like to have the transcript sent, and your signature. Current students may request a transcript for $3.00. For former students, a $10 processing fee for the first transcript and $3 for each additional copy must accompany the request. If express shipping is requested, it must be paid for in advance. The e-mail address is transcripts@mum.edu.

The University may withhold transcripts if any of the following apply:

- A student has an outstanding balance due with the Student Accounts Office
- A student has borrowed money in the form of a Federal Perkins Loan or Federal Stafford Loan and has left the University without completing the required Exit Interview
- A student is past due or in default on their Federal Perkins Loan or Federal Stafford Loan payments.

**REGISTRATION POLICIES**

All students, including new and readmitted students, are required to complete their registration at an assigned time several days before the beginning of each semester. Students are advised when to arrive for this registration. Students who are authorized to begin classes later in the semester register on the Thursday or Friday before their first course begins.

**Payment** — All students must either make full payment, or make appropriate arrangements for payment, with the Enrollment Center at or prior to registration. Payment procedures and payment plans are described under the “Tuition and Fees” section in this Catalog. A student whose payments are past due may be suspended from the University; that means that the student will not be permitted to enroll or continue in courses, to remain on the meal plan, or to live in campus housing. Diplomas, certificates, or transcripts will not be issued to or for a student whose account is in arrears.

**Course Enrollment** — The University reserves the right to limit the enrollment in any course, and to withdraw any course if too few students have registered or due to other unforeseen circumstances.
Changing Classes (Add/Drop) — The block system requires that even on the first day of the course much material must be covered. For this reason, students need to plan ahead; if you are unsure about which course to take, please meet with your advisor to make any changes to your schedule before the block starts.

To change from one course to another, first year students must see the first year advisor and other students, including new transfer students, see the graduation advisor. You will then be given an “Admit to Class” slip that is required for entry into the new class. No changes are allowed after the first day of a two-week block or after the second day of a four-week block.

Course Withdrawals — Students may withdraw from a course before a course starts or within the first two days of the course and have the course removed from their record. Students withdrawing after two days but before the midpoint of the course may also withdraw for any reason but will receive a course withdrawal on their academic record. It is advised that first year students see the first year advisor and that other students including new transfer students see the graduation director before withdrawing from a block. After the midpoint, students may only withdraw for reasons of illness or family emergency. If a student stops attending during the second half of the course for any other reason, they will receive a grade of NC. Students withdrawing from a course who live on campus may recover from illness in their room, and then must either return to class, move off campus for the remainder of the block, or engage in other activity as approved by the Dean of Students. Students must withdraw within three days of their last day of attendance in class or they will receive a grade of NC.

Forms for class withdrawal are available from your academic advisor in the Enrollment Center. This form must be completed for every withdrawal. It includes a statement of the withdrawal policy.

Instructional Course Withdrawal Procedures
1. To withdraw from the course before it has started, see your academic advisor in the enrollment center to fill out a form.
2. To withdraw two or more days after a course has started but before the midpoint of the course, fill out a withdrawal form together with your academic advisor in the enrollment center within three days of the last day of class attended. Please give complete information: the reason for withdrawal and intentions for the rest of the block. Sign and date the form at the bottom. After completing the form, the original goes to your permanent record in the Enrollment Center; one copy goes to you; and one copy to your course instructor. Your instructor will record a grade of W on the grade sheet for the course.
3. If you stop attending class during the second half of the course for any reason other than illness or family emergency, the instructor will record a grade of NC on the grade sheet for the course. Complete a course withdrawal form with your academic advisor in the enrollment center and have it signed by the instructor. The Dean of Students is immediately informed of the student’s situation.
4. It is your responsibility to inform your instructor of your intention to withdraw within three days of the last day of class attendance. If you are absent longer than three days, the instructor must assign a grade of NC.

5. If you are withdrawing from an entire block and want to withdraw from the RC course in that block as well, you must indicate that on the withdrawal form. You do not need to fill out a separate RC withdrawal form. (If you are withdrawing from only a part of a block, please see the RC Director for instructions.)

6. The Exercise and Sports Science department receives a copy of the course withdrawal form. Students are not responsible for Physical Activity Reports during a block from which they withdrew.

**Research in Consciousness Course Withdrawal Procedures**

1. If you are withdrawing from an *entire* block of instructional course work, you may also withdraw from the RC course for that block by marking the appropriate box on the course withdrawal form. There is no need to fill out a separate form.

2. If you wish to withdraw from a block of your RC course, but are not withdrawing from the instructional course, you must fill out an RC course withdrawal form. These are available from the RC Office, Dreier 118. You may withdraw from one block of RC per semester if needed for verified compelling reasons.

3. Partial block withdrawals — If you are only enrolled in part of a block, please contact the RC Directors *before the block begins* to make special arrangements for your RC course grading.

4. If you are enrolled in a course out of town for a block, you must inform the RC Directors in advance. (Examples include approved internships or fieldwork, courses at other locations, etc.) Students do not receive RC course credit when away from the University.

**Leaving the University.** Students who wish to take a break from their studies should inform their academic advisor in the enrollment center before leaving campus. The advisor will remove the unattended classes from the student’s record and fill out a “Change in Charges” form for the student if an adjustment of charges and/or refund is warranted. Students who are absent for an entire semester must apply for readmission through the Office of Admissions when they desire to return. See www.mum.edu/financial_services/reductions.html for details.

**Directed Study** is allowed only in special cases, such as a course required for graduation not offered at a time the student can take it. Students may apply for Directed Study by following these guidelines:

1. The student must fill out a Directed Study form with the faculty who will supervise the course.

2. The Directed Study form must be signed by the Department Chair of the supervising faculty, the supervising faculty, and by the student’s advisor.

3. The form must be submitted to the academic advisor in the enrollment center at least one week before the beginning of the course.

4. Directed Studies are allowed only on the Fairfield campus, and Research in Consciousness attendance is required.
Directed Study forms submitted after the block begins may not be accepted.

**Internships and Fieldwork** must be supervised by a faculty member and approved in advance by the Department Chair and the Academic Standards Committee. Internships must be in the United States or at an institution outside of the United States that is affiliated with the University. An Internship form must be submitted to the student’s advisor in the Enrollment Center at least one week before the internship is to start. Internship forms submitted after the beginning of the block may not be approved. Attendance for Research in Consciousness is required during Internships and Fieldwork done in Fairfield.

**Class Meeting Times** — Classes in standard programs generally meet Monday through Friday from 10:00 a.m. to 3:00 p.m. with an hour break for lunch, and from 10:00 a.m. to 12 noon on Saturday. Attendance at all classes is required. (NOTE: The Science and Technology of Consciousness class starts at 9:45 a.m. Each nonstandard program has its own class schedule.)

**Class Attendance and Participation** — A significant educational experience consists of more than merely assimilating information. Each class session is a valuable opportunity to develop important skills — for example, communication skills. The focus of group attention on the topic, intellectual discussion, public speaking during question and answer periods, and small group projects — all these elements combine to make each class session an enjoyable and valuable learning experience. The faculty place as much value on what students experience in each class as on the information they gain. For these reasons, attendance at all classes and full participation in all aspects of the assigned curriculum are required. Exceptions are made only for compelling reasons such as illness or family emergency. This means that a student who misses a class for other than a compelling reason is liable for a grade of “No Credit” (NC) in that course. If a student must miss more than one day for a 1-unit course, two days for a 2-unit course, or three days for a 4-unit course due to illness or family emergency, he or she must either withdraw from the course or ask the instructor for permission to apply for a grade of “Incomplete.”

Because of the importance of the first lesson of each course, students are expected to be present from the first lesson onward. Any student not present when the course instructor calls roll on the first day (except for such compelling reasons as illness or family emergency) may be asked to withdraw from the course.

**Standard Enrollment** — Students in standard programs normally register for 22.5 to 27.5 units in each semester, 22 units of instructional courses and 2.5 to 5.5 units of RC courses. All students are expected to be enrolled in every block. Enrollment in nonstandard programs varies from program to program.
Double Majors — Undergraduate students may major in two disciplines by satisfying the departmental requirements for each. The second major must involve at least 24 units of course work outside the first major department, and all course work for both majors must be completed before the degree is conferred.

Enrollment of Undergraduates in Graduate Courses — A senior who is within eight credit units of graduation and who has been accepted to a graduate program may, with the approval of the academic department and the Dean of the Graduate School, take graduate level classes while completing requirements for the bachelor’s degree. Admission to graduate study must be approved before course work applying to a graduate program is undertaken. Undergraduate students are not eligible for graduate assistantships, other forms of graduate student financial aid, or those services and prerogatives normally reserved for graduate students. Students enrolled in graduate classes while enrolled in an undergraduate program will be given an undergraduate status until the baccalaureate degree has been awarded. However the graduate department may accept credit toward the graduate degree earned while the student was enrolled in an undergraduate degree.

Additional Courses for Graduate Students — A graduate student admitted with deficiencies in academic background may be required to take academic work in addition to the prescribed courses of a program. Units earned in these courses generally do not count toward the minimum unit requirements for a degree.

Readmission — Students who have been away from the University for one semester or longer, have officially withdrawn from the University, or who have been suspended must apply for readmission by completing an “Application for Readmission” form with the Office of Admissions. Readmission is not automatic; applicants are subject to admissions review. Applications should be returned as early as possible.

Doctoral Research Off Campus — Candidates for the doctoral degree may, with the approval of the advisory committee, carry on some of the research work off campus. Arrangements for registration may be made by applying at the Enrollment Center.

Class Selection is held each spring for the next academic year. All returning students who are attending classes at that time must complete class selection for the next year’s classes. This facilitates registration in the fall.

Course Numbering System
000–099 Technical Training or Certificate Courses
1xx and 1xxx Undergraduate First-Year Courses
2xx, 3xx, 2xxx, 3xxx Undergraduate Upper Division Courses
4xx and 4xxx Undergraduate Advanced Upper Division Courses (open to some graduate students)
5xx and 5xxx Graduate Courses
6xx and 6xxx Advanced Graduate Courses
GRADING POLICIES

Evaluation of each student’s abilities and achievements is an integral aspect of the University. Among the means of evaluation are class participation, oral and written examinations, projects, and papers. In addition, to receive academic credit for any course, students are expected to attend all classes and participate fully.

Grades are posted for each course about two weeks after the end of each block. About six weeks after the end of each semester students receive their grade report, which includes the Instructional and RC Grade Point Averages (GPA), the primary indicators of academic progress.

Grading for Instructional Courses

<table>
<thead>
<tr>
<th>Grades</th>
<th>Points (per unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.00 (exceptional)</td>
</tr>
<tr>
<td>A</td>
<td>4.00 (excellent)</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>3.00 (good)</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td>2.30</td>
</tr>
<tr>
<td>C</td>
<td>2.00 (fair)</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
</tr>
<tr>
<td>NC</td>
<td>0.00 (No Credit)</td>
</tr>
</tbody>
</table>

Grade Codes Not Used in Computing Grade Point Average

- P  Pass
- I  Incomplete
- W  Withdrawal
- PW Pass/Waive
- AU Audit
- H  Honors
- NCR Course was repeated or replaced
- NP No Pass

Though professors may apply different standards in their courses, the faculty has agreed upon the following general descriptions for the grades given at the University. Within this framework, graduate students are expected on average to maintain “B” level work throughout their program:

- A  The Grade of “A” is given for work that is excellent. It is distinctive. It exhibits a high level of creative thought, critical evaluation, and/or awareness of the subtleties or nuances of a subject. This work succeeds as a coherent whole, with clear command of the details that make up the whole.
The grade of “B” is given for work that is good. It demonstrates comprehension of all the major concepts presented, and competency with respect to all of the skills outlined in the syllabus.

The grade of “C” is given for work that is fair. This work is generally below the expectation of the faculty as outlined in the syllabus, however, it is adequate to pass the course. The broad outline of the subject seems to have been grasped.

The grade of “NC” is given to work that substantially misses the broad goals of the course as outlined in the syllabus. This work does not demonstrate comprehension of the assigned work, even at a basic level. This work could have been done without reading the assignment or coming to class.

Grading for Research in Consciousness Courses

Semester Grades
H (Honors)
P (Pass)
NP (No Pass)
NR Not Required (RC courses only)

Pass//No Pass/No Credit grades (P, NP, NC) are grades used in some laboratory, fieldwork, practicum courses, and some RC courses. The “P” grade means “C” or better for undergraduate students and “B” or better for academic courses for graduate students.

Incomplete (I) is given in rare cases when some required work cannot be completed before the end of a course due to illness or family emergency, or a similar situation at the discretion of the instructor. A student must have made arrangements for the grade of “I” before the final examination. The Registrar must receive a change of grade before the end of the following semester or the “I” grade will be changed automatically to an “NC.” In the year that a student graduates, a change of grade must be received by the Registrar one month before the student graduates.

Withdrawal (W) is granted under certain circumstances. (See “Course Withdrawals” listed above.)

Pass/Waive (PW) — This grade is used to indicate credit given by examination.

Auditing Classes (AU) — To audit classes, students must have the written approval of both the instructor and the Academic Standards Committee before the course begins. “Approval for Audit” forms are available from your academic advisor in the Enrollment Center. Students auditing a course receive the grade of “AU” and will not receive academic credit. Auditors are expected to participate fully in the class including taking the final exam. If the student does not fulfill this requirement, a grade of “NC” will be given for the course and the NC will be included in the student’s GPA. No credit is given for a course in which the student receives a grade of AU. Students are required to pay full
tuition for all audited classes. (Although visitors often sit in on individual class sessions, anyone who sits in on an entire course is required to officially register as a student.)

Honors (H) — This is added to an instructional course grade when a student has completed the Honors requirement for that course.

NCR — This means that the course was repeated later for a passing grade or was replaced by another course and that this grade has been removed from the instructional GPA.

Grade changes must be approved by the course instructor or department chair. Grade changes are submitted by the department to the Registrar and then entered on the student’s record. Approval is subject to review by the Academic Standards Committee.

**Honors for Undergraduates**
1. An Honors Component may be available for undergraduate courses. Completion of the Honors Component and a grade of A or A- is required in order to receive Honors. The Honors grade will be reflected on the transcript.
2. Undergraduate students achieve the President’s Honor Roll for each semester in which they complete at least 12 units of instructional course work with a grade point average of 3.70 (“A-”) or higher, receive no NC grades, and have an RC grade of “B” or higher.
3. The faculty award graduation honors (summa cum laude, magna cum laude, and cum laude) to undergraduates based on the student’s academic excellence and holistic development.

**Honors for Research in Consciousness**
Students in all programs achieve Research in Consciousness (RC) Honor Roll for each semester in which they successfully complete at least 4 blocks of RC course work with a grade of H.

**Repeating a Course For A Higher Grade**
Repeating a course for a higher grade is permitted in rare cases with approval of the Registrar and the course instructor. Credit is given only once, but the registration and grade for both courses will appear on the transcript. Only the higher of the two grades is used in calculating the instructional GPA beginning with the semester in which it is earned.

If there have been extenuating circumstances, a graduate student may request to retest on an examination as long as: 1) The student has received a grade of less than a B but higher than an NC on an examination, 2) The student understands that no matter how well they perform on the retest, their final grade for the course cannot be higher than a B, and 3) The nature, extent, and preparation for the retest is determined on a case-by-case basis by the course instructor.
Research in Consciousness Course Policies

The Transcendental Meditation program is practiced by all students as part of their required Research in Consciousness courses. Many students also learn the advanced TM-Sidhi program, including Yogic Flying, and practice this as part of their Research in Consciousness course. For the personal benefit of all students, faculty, and staff there are specific policies that support the practice of the Transcendental Meditation and TM-Sidhi programs. Each element of these technologies for the development of consciousness has been carefully structured to produce maximum benefit. In order to ensure for everyone the integrity and effectiveness of the teaching and practice of the technologies of Maharishi Vedic Science, these technologies are practiced according to the instruction of qualified teachers, recognized by Maharishi University of Management, and they are practiced exclusive of other programs and procedures.

Students are automatically enrolled in Research in Consciousness courses for every block they are enrolled in other academic courses. Academic credit is given for these courses. Students receive credit for successful completion of these courses in each academic semester and are required to receive a passing grade for each semester they are enrolled.

Students practicing the Transcendental Meditation technique participate in these courses (RC 320 or RC 520) in comfortable halls designed for group meditation. Those who have also learned the TM-Sidhi program (Sidhas) take these courses (RC 332 or RC 535) in the University’s Golden Domes, where they join faculty and staff and hundreds of members of the Fairfield community. Meditators receive 0.5 semester units for each four-unit block they complete, up to 2.75 units per semester. Sidhas and Governors receive 1.0 semester unit for each four-unit block, up to 6.5 units per semester.

RESEARCH IN CONSCIOUSNESS COURSE GRADING POLICIES

Each student is expected to follow the instructions given by the University’s faculty and TM-Sidhi Program Administrators, and to place the highest priority on attending all RC (group program) sessions.

• Students are graded for their attendance at group program sessions during the entire block — Monday through Saturday of each week.
• Credit is earned for each group program session attended. A full explanation of procedures applied to RC attendance is available from the RC Office.
• Extra credit toward attendance may be earned by attending group program on Sundays and over the long weekends between most blocks.
• RC course grades are based on each student’s participation in the course over an entire semester. Each block will receive a grade, and then all block grades for the semester will be averaged together for a final semester grade. Thus, if circumstances during one block lead to a lower grade, a student may still attain a good grade for the semester by having higher grades in other blocks in that semester.
• The semester RC course grade goes into a separate grade point average (GPA) reserved for Research in Consciousness courses.
• In order to qualify for graduation, students must achieve at least a “CP” grade in the RC course each semester. If students receive less than a “CP” in one semester in their RC course.
course, or 2 blocks of very low attendance within a semester, they will be placed on RC Alert in order to indicate the need for improvement in this area.

- Students will be required to make up enough group programs to bring all semester RC course grades up to a “CP” at least 30 days before graduation.
- For information on the procedures for withdrawing from individual blocks of the RC course and how non-passing RC course grades can be made up, please contact the RC Directors.
- Special exceptions to RC attendance policies are considered case by case by the RC Directors. This includes graduate students needing to do research at other universities, childcare situations, illness, etc.

**DAILY ACTIVITY GRADUATION REQUIREMENT POLICIES**

All undergraduate students are required to engage in regular dynamic physical activity and to report this activity and also to complete a health and fitness assessment every semester as part of the required course ESS 101 Health and Fitness Practicum. It is expected that students will be physically active for at least four hours each week, ideally, 30 minutes per day from Monday to Friday, and 45 minutes on Saturday and Sunday.

This activity requirement extends to every academic block in which students are registered beginning in their second semester. This fitness program is an individualized flexible program that is designed and implemented by each student. Participation in this program is a graduation requirement and is monitored with an activity sheet. At the end of every academic block, the activity sheet is returned to the office of the Director of the Undergraduate Health and Fitness Program in the Department of Exercise and Sport Science. Students may also return the activity sheet by attaching it to an email and sending to fitness@mum.edu

To help students develop and implement a well-rounded fitness program, each student is given a required health-related fitness assessment at the beginning of every semester. The fitness assessment establishes a reference point that allows the student to monitor fitness changes and progress throughout the year. The faculty in the Department of Exercise and Sport Science are available to assist the students to plan and implement their individualized health and fitness program.

In addition to the daily activity requirement, all students must complete a knowledge-based graduation requirement entitled “Health-Related Fitness.” This course should be completed during the second forest academy of first year.

**MONITORING STUDENT PROGRESS**

The academic progress of all students is monitored so they and their advisors can be alerted at an early stage if some academic problem has arisen. Students who are placed on “Instructional Probation” or “RC Alert,” as described below, work with their advisor, department faculty, and/or the RC Office until they have reached a satisfactory level.
Instructional Probation — If any of the events listed below occur in one semester, students are placed on Instructional Probation for the following semester. Instructional Probation is listed permanently on the student’s transcript for the semester in which they receive the alert status. The probationary period is for the next semester the student is enrolled. If they receive no more “NC” grades during this period and the instructional grade point average (GPA) is at an acceptable level by the end of the next semester, they will no longer be on probation.

**Instructional Probation**
Undergraduate students are placed on Instructional Probation when, in one semester, they receive:
- six or more instructional units of “NC” grades, or
- a semester or cumulative instructional GPA of less than 2.0.

Master’s students are placed on Instructional Probation when, in one semester, they receive:
- one or more instructional unit of “NC” grades, or
- a semester or cumulative instructional GPA of less than 3.0.

Doctoral students are placed on Instructional Probation when, in one semester, they receive:
- any instructional course grade below a “B.”

**RC Alert**
Students are placed on RC Alert when they receive a semester grade of less than a “CP” in their Research in Consciousness course. Students are also placed on RC Alert if they have two or more blocks with very low attendance within a semester.

RC Alert is not listed on the student’s transcript but does require the student to meet with the Dean of Men or the Dean of Women before registering for the next semester. At this meeting, a strategy is developed with the student to help them correct the situation. As part of this strategy, the student is required to pass each RC course for the next five blocks of enrollment at the University as well as making up enough extra group program attendance to bring the semester grade up to a “CP.”

In the semester that a student graduates, all missed RC course grades must be made up at least one month before graduation and the student must be passing the current semester’s RC course.

**Suspension**
Students are eligible for suspension from the University if they receive an instructional grade of “NC” while on Instructional Probation, do not fulfill the terms of RC Alert, or their Instructional GPA remains below acceptable levels for an additional semester. A suspension meeting will be held which will include members of the Academic Standards Committee. The student’s Departmental Advisor may also attend and the student may
invite one student, faculty, or administrator as a representative. The decision on suspension will be determined by the members of the Academic Standards Committee. A suspension may be one or two semesters in length. A suspended student must apply for readmission through the Office of Admissions before returning to the University.

(NOTE: The decision of the committee is final, though the student may seek a review by the Academic Council through the Dean of Faculty within 72 hours.)

Additional Points for Graduate Students
Master’s Programs — Some departments will not permit students to remain in a program if there is an accumulation of more than a specified number of graduate instructional units with lower than a “B” grade even though the overall Instructional Grade Point Average is 3.0. Students who fail to meet the standards set by the department may be required to withdraw at the end of any block.

Doctoral Programs — These programs require a grade of “B” or higher in all instructional courses. Doctoral students who are unable to meet the standard of doctoral quality work, as determined by the advisory committee, may be asked to withdraw at the end of any block. At the end of each semester, the advisory committee interviews all doctoral students to evaluate and discuss their progress in the program.

Satisfactory Academic Progress

Students receiving University scholarships or financial aid from the U.S. federal government are required to meet additional academic requirements in order to continue receiving these funds. A brochure entitled “How to Maintain Your Financial Aid Eligibility” explains these additional requirements and is available from your Financial Aid Office located at the Enrollment Center.
ADMISSIONS

General Admissions Statement
In selecting applicants for admission, Maharishi University of Management considers each prospective student’s overall potential. Factors considered include not only academic accomplishment, but also maturity, motivation, and dedication to learning. Grades; extracurricular activities and work experience; recommendations from teachers, employers, and others who know the applicant well; scores on standardized tests; and other information, including answers to essay questions and personal interviews, are all considered.

An applicant’s degree of commitment to the educational opportunities offered at the University — enthusiasm for learning and dedication to developing full potential — are seriously considered in the admissions process.

• Admissions Interview
An interview with a representative of the University is a required part of the application process for both undergraduate and graduate programs. When a visit to the campus is not possible, this is done over the telephone.
For those who can come, many Visitors Weekend Courses are offered each year, during the fall, spring, and summer. These courses provide a complete introduction to the University and are highly recommended for prospective students and their families.

• Application Deadline for Admissions and Financial Aid
The academic year begins in mid-August for U.S. applicants (international students see the section titled “International Student Admissions”). Most new students begin at this time; however, spring admission does occur for certain undergraduate and graduate programs. (Check with the Office of Admissions for details of program starting dates.) Special students may register for individual courses offered in one-month blocks throughout the year. (Please refer to “Special Program Admissions” in this section of the Catalog.)

STUDENTS ARE REQUIRED TO APPLY ONLINE AT
http://mum.edu/apply/online

Applicants who plan to enter in August should submit their completed applications by May 15. (For students applying to the master’s degree cooperative programs, the deadlines may differ.) For all students planning to enter in the spring semester, the date is November 15. Applying by these dates gives applicants the best opportunity for receiving the maximum financial assistance if accepted, and helps assure space being available in the program for which they are applying. Applications received after these dates will also be considered and, in many cases, programs will be able to accommodate additional students.
To be considered for admission, prospective students should complete all aspects of the application process.

Criteria for Undergraduate Admissions
Applicants to the undergraduate programs are considered for admission after a comprehensive evaluation of their completed applications including essays, high school records (and previous college records, if applicable), SAT or ACT scores, recommendations, and an interview with an Admissions Representative.

Applicants who did not complete their high school study are required to submit one of the following: 1) General Educational Development (GED) certificate; or 2) a certificate of completion of a home-study program if the program is recognized by the student’s home state, or if the program is not recognized by the student’s state, the state must not consider the student to be in violation of truancy laws. Home-schooled applicants must also submit a complete home schooling record. All certificates and transcripts from high schools, colleges, and correspondence schools should be sent directly from the school or state agency to the Admissions Office.

Students whose native language is not English are interviewed for proficiency and may be required to submit a Test of English as a Foreign Language (TOEFL) score. A score of 550 or higher is required.

While an applicant’s previous academic performance is a primary consideration, commitment to gaining maximum benefit from the educational opportunities offered at Maharishi University of Management is also an important consideration in the admission process.

• Undergraduate Application Procedures
For information regarding undergraduate application procedures, please refer to the University’s application.

GRADUATE ADMISSIONS

• Criteria for Graduate Admissions
Individuals who have earned a bachelor’s degree, or are in their senior year of college, may apply for admission to a program of graduate study at the University. Admission decisions are based upon the applicant’s academic record in undergraduate programs, other graduate programs (if applicable), graduate entrance examination scores, experience, personal qualifications, recommendations, and proposed program of study.

A grade point average of at least 3.0 (on a 4.0 scale) in the third and fourth years of undergraduate study is required by the Graduate School for regular admission to graduate programs. Exemptions are granted for specific situations.
• **Acceptance Status**
Upon admission to a graduate program, a student is classified in one of two categories — full or provisional acceptance. Specific criteria for distinguishing between these categories are determined within each department for its own programs. In general, these criteria are:

— Full acceptance: Students who are considered to be fully qualified to undertake a program toward the graduate degree for which they are admitted.

— Provisional acceptance: Students of promise who need to fulfill specific provisions (such as strengthening subject matter preparation) or whose available records are incomplete. A student who is admitted under provisional status will be eligible for regular status when the specific written conditions for full acceptance have been met.

• **Graduate Application Procedures**
For more information regarding graduate application procedures, please refer to the University’s application.

**CERTIFICATE PROGRAM ADMISSIONS**

A certificate program awards a student a certificate of achievement but not a formal degree.

Applicants must have a high school diploma or the equivalent and are required to
• Complete an application;
• Submit personal recommendations;
• Have certified transcripts sent directly from their high school and any colleges they have attended (for international students, certified English translations of transcripts must accompany original transcripts).

Students whose native language is not English are interviewed for proficiency and may be required to submit a Test of English as a Foreign Language (TOEFL) score. A score of 550 or higher is required.

While an applicant’s previous academic performance and recommendations are a primary consideration, commitment to gaining maximum benefit from the educational opportunities offered at Maharishi University of Management is also an important consideration in admission decisions.

A personal or telephone interview with an Admissions Officer is required.

**TRANSFER STUDENTS**

Maharishi University of Management welcomes qualified transfer students. For the number of units that may be transferred by undergraduate and graduate students, the
method for evaluating those units, and residency requirements, please refer to “Transfer Students” in the “Graduation” section of this Catalog. All transfer approval must be completed within the student’s first semester at the University, except for students receiving Veterans’ Educational Benefits (evaluation is done automatically upon enrollment).

Transfer students applying for U.S. financial aid must submit all transcripts from all previous schools to the Office of Admissions. Before financial aid can be awarded, these transcripts must be reviewed by the Office of Financial Aid to determine class standing and eligibility.

Undergraduate transfer students, like all Maharishi University of Management undergraduate students, complete the Science of Creative Intelligence course (FOR 100) as their first course in residence. (Please refer to “Degree Requirements” in the “Graduation” section of this Catalog.) Note: Up to half of the units in the major can be transferred.

Graduate students are required to complete an SCI course (FOR 500 or FOR 501) at the start of their first year in residence. FOR 500 is for graduate students who have never taken the Science of Creative Intelligence 33-Lesson course. FOR 501 is a review course for graduate students who have already taken this course at the University or another facility.

Placement Examination Credits
Students who have earned credit by examination through approved programs such as College-Level Examination Program (CLEP), American College Testing (ACT), and Advanced Placement (AP), and whose scores are in the 60th percentile or above, may use this credit to pass/waive up to 12 units of upper-division undergraduate course work.

INTERNATIONAL STUDENT ADMISSIONS

• Application Deadlines
Maharishi University of Management welcomes international student applicants for all the University’s programs. In order to process applications and immigration forms in a timely way, completed applications should be received by the Office of Admissions no less than two months in advance of the start of the school year or program starting date. International students who are interested in applying to Maharishi University of Management should request instructions and admission materials well in advance of this date.

STUDENTS ARE REQUIRED TO APPLY ONLINE AT
http://mum.edu/apply/online
• **Academic Records**
  An official copy of all records of any previous schooling (mark sheets, transcripts, diplomas, certificates, etc.) must be submitted as official certified documents directly from each institution. Any photocopies must have the signature of a school official and the school seal. These records must show courses taken and grades earned and must be translated into English if the original records are in another language. When a translation is supplied, the original record must also be included. Translations must be officially certified by a translator or interpreter. All records should be mailed to: Admissions Department, Maharishi University of Management, 1000 North Fourth St., Fairfield, IA 52557, U.S.A.

• **Visa Procedures**
  Once the application for admission is approved, a University acceptance letter and a U.S. Immigration Service SEVIS I-20 form will be mailed to the applicant. A prospective international student should not make plans to enter the United States before receiving both a letter of acceptance and a SEVIS I-20 form. It will be necessary to present these documents at the U.S. Embassy/Consulate, when applying for an F-1 student visa, and again upon arrival into the United States, and finally, during registration at the University. If further documentation is needed in obtaining a student visa, please contact the Office of International Admissions.

• **Financial Statement**
  International students must provide evidence of financial ability to pursue a course of study at Maharishi University of Management before the letter of acceptance and the SEVIS I-20 form can be generated and mailed. Some financial assistance may be available for those who demonstrate academic promise, financial need, and a strong commitment to develop their full potential and the potential of their nations. Students must provide a letter from their bank to the Office of International Admissions verifying the availability of funds to meet their educational expenses for at least one academic year. Using this verification, the University can then issue a SEVIS I-20 form, which is needed to obtain a student visa.

Please note that the U.S. Immigration Service strongly discourages and usually disallows international students from entering the U.S. on a Visitor visa and then attempting to change status after arrival. The only exception to this rule would be to make clear at the Port of Entry that one is coming as a “Prospective Student” and ask that this particular designation be made on the I-94 card. Otherwise, an application for Change of Status from Visitor to Student will most certainly be denied. Furthermore, a Prospective Student is not allowed to register and enroll unless and until any Change of Status application is approved (a process that can take several months). Because of these strictures, the University has a policy of only registering students who have obtained the proper student visa.

• **Health Insurance**
  Due to the high cost of medical care in the U.S., all international students must purchase health insurance through the University at the time of registration. Students are exempt
from this requirement if they can show at registration that they have adequate coverage under their own insurance.

This health insurance requirement is based on our concern that our international students are (1) adequately covered in the event of accident or illness, (2) able to receive the most complete and up-to-date medical care available, and (3) not incurring large financial losses as a result of a medical emergency while in the United States.

• English Proficiency
Applicants whose native language is not English are interviewed for proficiency and may be required to submit a Test of English as a Foreign Language (TOEFL) score. A score of 550 or higher is required. Some graduate programs require a score of 600 or higher on the TOEFL.

Students may register for the TOEFL and request that their scores be forwarded to the University at the time of the test, or by writing to the Educational Testing Service, Box 592, Princeton, New Jersey 08540, or by e-mailing the contact form at www.toefl.org/contact.html. The University’s college code number for this purpose is 4497.

SPECIAL PROGRAM ADMISSIONS

Special admissions procedures and requirements for the special courses and programs offered by Maharishi University of Management are described below.

• The Science of Creative Intelligence Course
This course is the foundation for all University programs. The Science of Creative Intelligence course (FOR 100 or FOR 500) is the first course for any student coming to the University; however, it can be taken by any interested person (even if not enrolled in a degree program) whenever it is offered, by applying through the Office of Admissions.

• Special Students
Special Undergraduate Students — Anyone not seeking a degree may take regular undergraduate courses for up to one year. These individualized programs offer the advantages of a Maharishi University of Management education to those who do not wish to enroll as degree-seeking students. Credit is generally transferable to other universities. (Applicants should determine beforehand whether credit is transferable to their school.) Special undergraduate students generally begin their program of study with the Science of Creative Intelligence course (FOR 100).

Special Graduate Students — Students desiring to take additional study beyond the bachelor’s degree, without intending to earn a graduate degree, may apply for admission for non-degree status. Students may transfer up to 8 units of credit earned in this non-degree status to a regular degree program with the approval of the Academic Standards Committee, the academic department, and the Dean of the Graduate School. For the master’s degree, the final 40 credit units generally must be earned at the University in a
degree-seeking status. For the doctoral degree, credit units earned while in this non-degree status will be reviewed by the student’s department faculty and/or advisory committee for possible acceptance as part of the requirements for the degree. Special graduate students generally begin their program of study with the Science of Creative Intelligence course (FOR 500).

• Junior Year at Maharishi University of Management
Students enrolled in degree programs at other universities are invited to attend Maharishi University of Management for their junior year and add the holistic benefits of the University’s programs to their educational experience. Individually tailored, the Junior Year program generally includes some first-year courses; course work in any of the upper-division major programs; the Science of Creative Intelligence course (FOR 100); and one Forest Academy. A half-year program is available for those who cannot stay for a full academic year.

• Special MVS Studies Program
The Special MVS Studies program is offered by Maharishi University of Management in conjunction with the Maharishi Vedic Education Development Corporation (MVED) through reciprocal credit arrangements. Courses offered include “Transcendental Meditation-Sidhi Course” and “Transcendental Meditation Program Teacher Training, Parts I and II.” Degree-seeking students enroll in these courses under the guidance of their academic advisor. Non-degree students wishing to enroll in a Special MVS Studies course must submit a completed “Special MVS Studies Program Application/Registration” form and a nonrefundable $50 application and registration fee to the Registrar’s Office. Upon receiving verification of satisfactory completion of course work the University will enter credit on the student’s permanent record.

For further details about this program, please refer to “Special MVS Studies Program” under the “Department of Maharishi Vedic Science.”

• Super Radiance in Residence Program
This program is designed to allow individuals the opportunity to take part in both the University’s Research in Consciousness program (group practice of the Transcendental Meditation and TM-Sidhi programs, RC 350, for 0.5 units per month of credit) and a special evening series entitled “Knowledge for Enlightenment.” Participants in the Super Radiance in Residence (SRR) program live on campus either in the dormitories or in Utopia Park. They are required to participate in the University’s Super Radiance program sessions and are entitled to attend the “Knowledge for Enlightenment” program series given each evening. Applicants should contact the Department for the Development of Consciousness at (641) 472-1212 for details on this program. Availability of this program is dependent on available housing.
ADDITIONAL INFORMATION FOR ALL APPLICANTS

• Policies for Practice of the Transcendental Meditation and TM-Sidhi Programs
The Transcendental Meditation program is practiced by all University faculty and staff, as well as by all students as part of their required Research in Consciousness course. Many students, faculty, and staff have learned the advanced Transcendental Meditation-Sidhi program and practice this program as part of their Research in Consciousness program. For the personal benefit of all students, faculty, and staff these technologies are practiced exclusively of other programs or procedures. There are specific policies that support the practice of the Transcendental Meditation and TM-Sidhi programs. Each element of these technologies for the development of consciousness has been carefully structured to produce maximum benefit.

In order to ensure for everyone the integrity and effectiveness of the teaching and practice of the technologies of Maharishi Vedic Science, these technologies are practiced according to the instructions of qualified teachers recognized by Maharishi University of Management, and they are practiced exclusive of other programs and procedures.

• Drug, Alcohol and Smoke-Free Environment
Education at Maharishi University of Management is designed to help students become more creative, alert, and awake and to develop optimum health. Therefore the following points clearly outline the University’s policies on the use of tobacco, non-prescribed drugs, and alcohol:
1. Tobacco products, non-prescribed drugs, and alcohol are not allowed on campus.
2. Students are not allowed to be in the presence of others using non-prescribed drugs or alcohol on campus.
3. The use of non-prescribed drugs is not allowed on or off campus.
4. The use of alcohol off campus is illegal for students under the age of 21 and strongly discouraged for all students.

• Official Acceptance Required before Arriving on Campus
Maharishi University of Management may defer admission or readmission of a student to any program if such deferral is warranted on the basis of the application or other information. It is very important that students do not come before receiving official acceptance. International students must also have received their U.S. Immigration and Naturalization Service I-20 form from the Office of Admissions before coming to the University.

• Childcare Policy for Students with Children
The daily academic program at the University — as at any university — is a full schedule, requiring parents to arrange child care during the day. To ensure the comfort of both parents and children, the University has developed certain childcare policies, as follows:
• It is the responsibility of student parents to provide full-time child care if their children do not attend school. Parents must either provide a nanny or provide other full-time care of the children.
  
• Student parents must submit a written agreement to the Office of Admissions stating that they will provide adequate child care during their stay at the University, indicating the means by which they plan to do so. This written agreement is a requirement for acceptance.

READMISSION

Former students who have officially withdrawn from the University or who have not been in attendance during the most recent semester should contact the Office of Admissions for an “Application for Readmission.” (Please refer to “Readmission” under “Registration” in the Catalog.)
FINANCIAL AID

The Office of Financial Aid is dedicated to providing all students with as much assistance as possible to help them meet their educational expenses. All students are encouraged to apply for financial aid. In the 2007–2008 academic year, 90% of all full-time students received some form of financial aid. Most financial aid is awarded on the basis of need, but the University provides merit-based scholarships as well. Need is not considered when determining students’ qualification for admission. If students qualify for admission, Maharishi University of Management makes every effort to provide them with a financial aid package generous enough to enable them to attend the University.

For need-based financial assistance, the Free Application for Federal Student Aid is used to determine students’ financial need — the difference between what they and their family can reasonably contribute and the actual cost, including personal expenses such as travel and books.

Maharishi University of Management offers a program of federal, state, and University financial assistance for U.S. citizens, and University aid for international students. For example, U.S. undergraduate students may be eligible for federal grants, as well as University scholarships, and Iowa Tuition Grants for Iowa residents. U.S. graduate students and international students may qualify for generous University scholarships covering a substantial part of the tuition.

For U.S. students, a variety of loan and work-study options fill any remaining need. Grants and scholarships do not have to be repaid. For most loans, repayment does not begin until six months after students graduate; ten years is the usual repayment period. Work-study awards allow students to pay for a portion of their education by working at a part-time job at the University, usually after classes or on weekends. The average student with a work-study job works 4 to 6 hours a week.

Information on how to apply for student financial aid and further details about available funds are available at the University’s website, www.mum.edu. The application procedure is simple, and the Financial Aid staff is pleased to help in any way.

CURRENT FINANCIAL AID PROGRAMS

Federal and State Grants:
• Federal Pell Grant
• Federal Supplemental Educational Opportunity Grant
• Academic Competitiveness Grant
• National Science and Mathematics Access to Retain Talent Grant
• Iowa Tuition Grant
• Iowa Grant
University Scholarships:
• Trustees’ Scholarship
• National Merit Finalist Awards
• Shelley Hoffman Scholarship
• Ray Prat Music Scholarship
• DeRoy C. Thomas Scholarship
• Sam McIlhenny Scholarship

Loans:
• Federal Perkins Loan
• Federal Stafford Loan
• Federal PLUS Loan
• University Revolving Loan
• Private Educational Loans

Other Forms of Aid:
• Veterans’ Benefits
• Iowa National Guard Educational Benefits
• Federal Work Study

If you have any questions about financial aid, please write or call the Office of Admissions (641) 472-1110 or the Office of Financial Aid, Telephone: (641) 472-1156, Fax: (641) 472-1133, e-mail: finaid@mum.edu.
TUITION AND FEES

TUITION CHARGES PER SEMESTER FOR NORMAL STANDARD PROGRAMS

<table>
<thead>
<tr>
<th>Program Description</th>
<th>Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Program Full Time (12 or more units)</td>
<td>$12,000</td>
</tr>
<tr>
<td>Standard Program 1/2 Time (6 to 11 units)</td>
<td>$ 6,000</td>
</tr>
<tr>
<td>Standard Program 1/4 Time (2 to 5 units)</td>
<td>$ 3,000</td>
</tr>
</tbody>
</table>

Students are encouraged to attend all blocks each semester. Standard programs have courses at the rate of one academic unit per week, as well as Research in Consciousness (RC) units. The RC units are not used to calculate charges for normal standard programs. Ph.D. candidates pay 50% tuition; Ph.D. researchers pay 25% tuition. Ph.D. Researchers are always full time.

TUITION CHARGES PER SEMESTER FOR NONSTANDARD PROGRAMS

<table>
<thead>
<tr>
<th>Program Description</th>
<th>Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master’s in Business Administration</td>
<td>$3,600</td>
</tr>
<tr>
<td>Master’s in Maharishi Vedic Science</td>
<td>$1,600</td>
</tr>
<tr>
<td>All Other Nonstandard Programs</td>
<td>$2,700</td>
</tr>
<tr>
<td>Per unit charge when there are less than 10 nonstandard units in a semester</td>
<td>$ 350</td>
</tr>
</tbody>
</table>

Nonstandard programs are evening/weekend, or mornings only, and one course at a time distance education schedules. Full-time definition is six units for graduate nonstandard programs. Some programs have a mixture of standard and nonstandard semesters. These figures reflect the nonstandard semesters.

HOUSING AND MEAL CHARGES PER SEMESTER

<table>
<thead>
<tr>
<th>Period</th>
<th>Single Room</th>
<th>Full Meals</th>
<th>MSV Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twelve or more weeks in a semester</td>
<td>$1,400</td>
<td>$1,600</td>
<td>$750 Additional</td>
</tr>
<tr>
<td>Six to eleven weeks in a semester</td>
<td>700</td>
<td>800</td>
<td>300 Additional</td>
</tr>
<tr>
<td>Two to five weeks in a semester</td>
<td>400</td>
<td>350</td>
<td>150 Additional</td>
</tr>
</tbody>
</table>

Housing charges must be accompanied by full meal charges. Meal charges are not available to students without housing charges. If you wish to stay on campus while not enrolled (including Winter and Summer holidays), there will be an additional housing and meal charge. All students who live on campus are required to pay for full meals. This consists of three meals per day, seven days per week. Single undergraduate students under 25 years of age are required to live in University housing. Exceptions to the housing requirement may be made when extenuating circumstances exist — for example, when parents are Fairfield residents — by petition to the Academic Standards Committee in advance of the academic year, indicating the reason for the exception and the proposed address. Note: For students applying through Admissions, the Admissions Representative writes and sends this petition for them.

OTHER CHARGES

Student Fees: A Student Activities fee of $60 used by Student Government to support student-sponsored activities, a Student Athletic Facilities fee of $40, and a technology fee of $115 are charged per semester. Fees are not prorated for partial enrollment. Fees are not charged when enrollment is less than seven weeks in a semester, or if the entire semester is taken outside of Jefferson County.

Application Fees: A nonrefundable application-processing fee paid at the time of submitting the online admissions application form via credit card in the amount of $30.
**Tuition Deposit:** A refundable deposit of $100 is required for prospective students at the time of confirmation of enrollment at Maharishi University of Management. This deposit may be applied to a student’s Security Deposit at registration.

**Security Deposit:** Each student in attendance pays a security deposit of $100 at the first registration, which is transferred from one semester to the next and is used to cover any damages or unpaid fines. This deposit is refunded at the end of enrollment less any unpaid charges if, for on-campus students, the Housing Departure Form is submitted within 72 hours of the last day of class.

**International Students Health Insurance:** International students are charged $540 per semester for six months of required health insurance unless otherwise insured (proof of other insurance required within two weeks of initial semester registration). Health insurance is not prorated for partial enrollment, except for three-month increments (approximately $270) as long as no claims have been incurred.

**Transcendental Meditation Program Tuition:** The David Lynch Foundation has announced that degree seeking students at Maharishi University of Management (all undergraduate and US Graduate students) will receive a scholarship covering the cost of the University’s TM course. International graduate students will receive a loan for the $625 tuition.

**TM-Sidhi Course Tuition:** $1,250 plus accommodation for two weeks in residence, about $900

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**COST OF BOOKS, SUPPLIES, AND EQUIPMENT**
For most programs, the costs for books, supplies, and equipment are estimated to be $800 per academic year with certain exceptions. Some of these are:
- Undergraduate Art Majors: $1,600 per academic year
- Nonstandard Programs: $100–$500 per academic year

**PAYMENT PLAN**
Students may pay their charges for the semester in one of two ways:
1. Full payment on or before registration (Fall: August; Spring: January)
2. Payments may be made in four (4) equal installments per semester with a $10 service charge per installment. The first installment is due at registration with the three additional installments due on the first day of each successive month (Fall: Oct. 1, Nov. 1, Dec. 1; Spring: Mar. 1, Apr. 1, May 1). There is a fee of $50 for late payment of installments. Students are responsible for payment by due date whether or not a reminder notice is received.

**PAYMENT PROCEDURE**
Please make checks payable to *Maharishi University of Management*. Only checks drawn on U.S. banks using U.S. currency will be accepted. Please do not send cash. Wire transfers to a student’s account can also be arranged; the University Student Accounts Office at (641) 472-7000, ext. 1341 can provide details. When making payments, the following information is needed on a separate piece of paper: the name and student I.D. number of the student for whom the payment is made, the amount enclosed, and a return address. Payments should be mailed to: Student Accounts Office, Maharishi University of Management, Fairfield, IA 52557. Visa and MasterCard payments must be made in person, or by FAX to (641) 472-1133 (include the credit card number, expiration date, printed name as it appears on the card, amount to be charged, and authorizing signature, along with the name of the student and student I.D. number).

**REDUCTION IN CHARGES FOR WITHDRAWAL FROM COURSES**
There is no reduction in tuition for any course after a student begins attending the third day of that course. If a student attends more than one course (a forest or a block) in the semester, and is changing the semester....

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1 New students please ask your Admissions Representative for your student I.D. number. If you are a continuing student, please look on your student badge.
registration by withdrawing from unattended courses (according to itemization below), then charges may be reduced (requires change in registration, charges, and financial aid). Change-in-registration fee is $35. • **Standard Program** charges are reduced according to enrollment status changes (see previous page). Take, for example, a student who originally registered for 22 units and has charges and aid as a full-time student; withdrawing from twelve units (three months) of unattended courses would reduce enrollment status, as well as charges and aid to the 1/2 time rate.
• **Nonstandard program** charges may be recalculated at $350 per nonstandard unit if there are less than 10 nonstandard units remaining in the semester of attended nonstandard courses (financial aid would be reduced correspondingly).

**REDUCTION OF HOUSING AND MEAL CHARGES**
**FOR STUDENTS MOVING OFF CAMPUS OR TO UTOPIA PARK DURING A SEMESTER**
Students wishing to move off campus or to Utopia Park after they have registered must first obtain approval from the Academic Standards Committee, and then may file a petition with the Finance Review Board requesting a reduction of charges. There is no reduction in semester charges after two months on campus. There is a change-in-registration fee of $35.

**EXAMPLES: REDUCTIONS IN CHARGES FOR UNATTENDED CLASSES**
| Full-Time Standard Tuition, Housing, Meals, Fees | $15,215 (Attendance began in more than 11 units) |
| Half-Time Standard Tuition, Housing, Meals, Fees | $ 7,715 (Attendance began in less than 12 units) |

**REDUCTIONS IN CHARGES DUE TO WITHDRAWAL FROM THE UNIVERSITY**
Students withdrawing from the University during their first course (a forest or a block) in a semester may have their semester charges (tuition, fees*, housing, and meals) reduced or recalculated in proportion to the time attended (see below). Note that when charges are reduced, financial aid is also reduced. After completion of the first course in a semester, a student leaving the University is considered to be changing his/her registration (enrollment status), and not to be withdrawing, according to federal Department of Education policy (see above, “Reduction in Charges for Withdrawal from Courses”).

* **Official notification of withdrawal from the University** requires filling out a “University Departure” form and submitting it to the Enrollment Center. The date the student begins this process is the official withdrawal date, unless the University documents a later date of class attendance. The percentage of time attended is defined as the number of calendar days in the semester (or the period of time for which the student was charged) divided by the number of calendar days from the start of the semester to the official date of withdrawal. The semester charges are reduced or recalculated to be the percentage of time attended multiplied by the original semester charges.

**REDUCTION IN FINANCIAL AID DUE TO UNIVERSITY WITHDRAWAL**
University scholarship, University loan, and state grants are reduced or recalculated by using the same percentage attended that was used above, multiplied by the original aid. In addition, federal law requires that the University and the student return U.S. Government financial aid that has been “unearned” (see below). The University must return the lesser of the following amounts:
— Unattended percent multiplied by the semester federal aid, called “unearned” federal aid; and
— Unattended percent multiplied by semester tuition, fees*, housing, and meals.

The return of federal funds to the U.S. Government by the University means that the student’s financial aid will be reduced. In many cases this will result in a payment due by the student to the University (see example).
• **The University is required to return “unearned” federal aid** to the U.S. Government in the following order:
  1. Stafford loans first, unsubsidized, then subsidized;
  2. Perkins loans next;
  3. Federal grants last: Pell first, then ACG, then NSG, then FSEOG.

* Student Activities and Athletic Fees only, not other fees and fines such as laboratory fees or Library fines.
• The student also must return any remaining “unearned” federal aid in the above order, except that the
student is not required to return more than 50% of federal grants, and federal loans may be repaid under
the terms of the loan.

EXAMPLE: UNIVERSITY WITHDRAWAL FOR STUDENT WITH U.S.
GOVERNMENT AID
In this example, a U.S. student was charged $12,215 for the semester tuition and fees* and had received
$16,415 in financial aid for the semester, keeping $4,200 from student loans for allowable living costs,
books, and supplies. The student officially withdrew, having attended 6.7% in time.
The student’s charges and aid were recalculated, requiring the student to return $3,918 in cash to the
University. The University originally gave the student $4,200 in cash for expenses from student loans, but
as a result of this withdrawal, recalculation of charges and aid, the student is only eligible for $282 cash:

<table>
<thead>
<tr>
<th>Original Charges</th>
<th>Recalculated Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>$12,215 original charges</td>
<td>$818 recalculated charges (7% of $12,015)</td>
</tr>
<tr>
<td>– $4,800 original scholarship</td>
<td>– $322 recalculated scholarship (7% of $5,115)</td>
</tr>
<tr>
<td>– $11,615 original federal loans</td>
<td>– $778 remaining federal loans (see below)</td>
</tr>
<tr>
<td>= $4,200 (original cash to student)</td>
<td>= $282 (recalculated allowable cash for student)</td>
</tr>
</tbody>
</table>

The federal aid was recalculated according to federal regulation: by first determining the lesser amount of:
• $10,837 “Unearned” federal aid (unattended percent of original federal aid, 93.3% of $11,615); and
• $11,397 (unattended percent times semester charges, 93.3% of $12,215).
Therefore the University must reduce the loans and return $10,837 of the student’s original
$11,615 federal loans ($11,615 minus $10,837 = $778 remaining federal loans):

<table>
<thead>
<tr>
<th>Original Loan</th>
<th>Recalculated Loan</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4,365 original federal unsubsidized Stafford loan</td>
<td>$0 no remaining unsubsidized Stafford loan</td>
</tr>
<tr>
<td>+ $4,250 original federal subsidized Stafford loan</td>
<td>+ $0 no remaining subsidized Stafford loan</td>
</tr>
<tr>
<td>+ $3,000 original federal Perkins loan</td>
<td>+ $778 remaining Perkins loan</td>
</tr>
</tbody>
</table>

= $11,615 original federal loans

= $778 remaining federal loans

OTHER POINTS REGARDING CHARGES
Students with a remaining balance due to the University should pay it before leaving the University. In case
students are requested to withdraw from the University because of poor academic standing or disciplinary
reasons, reductions in charges are the same as for other withdrawals from the University.
An appeals process for review of specific situations is available by filing a Financial Review Board petition
form, available at the Enrollment Center. For more information on these policies, their application, and
additional examples, please contact the University’s Enrollment Center.

STUDY ABROAD AND COURSES TAKEN AWAY FROM FAIRFIELD
U.S. students in standard programs eligible for federal aid will be assisted in obtaining federal aid to attend
eligible study-abroad programs. Only $500 of University tuition will be charged when the other institution
grants academic credit via approved transcript. University tuition (see beginning of Financial Section) is
charged for any other course taken away from Fairfield, including Internships, Fieldwork, Thesis, Projects,
MVS Special Studies, and other studies, even when the source of course work is not primarily taught by
University faculty.

MVS 497 RESEARCH INTERNSHIP
Students with financial need attending MVS 497 will receive $9,000 per semester in University scholarship
toward full-time tuition. U.S. students may be eligible for federal grants and loans. International students
with financial need may also receive a loan from the University for $2,000. This is based on 12 units in a
semester of MVS 497. (maximum 24 units)

COURSES TAKEN DURING JULY AND AUGUST
Special procedures and extra charges apply for courses taken from July 1 to August 20. Approval must be
obtained by submitting an Academic Standards Petition. Extra tuition charges of $350 per unit and extra
housing and meal charges of $200 per week apply. Financial Aid, including scholarship, is not available
during this time. Courses during July will be added to spring semester. Courses during August will be
added to fall semester.

CONTINUING EDUCATION / SPECIAL STUDENTS
Special students who are not seeking a degree may take up to eight units a semester at the rate of $350 per
unit, with housing and meals at the rate of $750 per month (financial aid, including scholarship, will not be
Some courses have a higher tuition rate, such as Science of Creative Intelligence ($4,000) and MVS 100 (TM Technique $2,000).

**INFORMATION FOR RECIPIENTS OF THE GRANTS**

In the event that available state funds are insufficient to pay the full amount of each approved Iowa Tuition Grant, the Iowa College Student Aid Commission has the authority to administratively reduce the maximum award to an amount less than the statutory maximum. In the event that federal funds are insufficient to pay the full amount of each awarded Academic Competitiveness Grant or SMART Grant, the University has the authority to administratively reduce the maximum award to the amount specified by the federal government.

**IMPORTANT NOTICE**

In compliance with Iowa Code Annotated Title VII 3 261B, please see www.mum.edu for course titles, descriptions, academic policies, credit earned and degrees, as well as accreditation information, in combination with the charges and refunds policies herein. Maharishi University of Management reserves the right to change, without prior notice, University charges and policies. All information in this document is in accord with federal regulations as of January 31, 2008.

**OTHER POINTS REGARDING CHARGES**

Students with a remaining balance due to the University should pay it before leaving the University. In case students are requested to withdraw from the University because of poor academic standing or disciplinary reasons, reduction in charges are the same as for other withdrawals from the University.

An appeals process for review of specific situations is available by filing a Financial Review Board petition form, available at the Enrollment Center. For more information on these policies, their application, and additional examples, please contact the University’s Enrollment Center.

**Study Abroad and Courses Taken Away from Fairfield**

U.S. students in standard programs eligible for federal aid will be assisted in obtaining federal aid to attend eligible study abroad programs. Only $500 of University tuition will be charged when the other institution grants academic credit via approved transcript. University tuition is charged for any other course taken away from Fairfield, including Internships, Fieldwork, Thesis, Projects, MVS Special Studies, and other studies, even when the course is not primarily taught by University faculty.

**Courses Taken During July and August**

Special procedures and extra charges apply for courses taken from July 1 to August 20. Approval must be obtained by submitting an Academic Standards petition. Extra tuition charges of $350 per unit and extra housing and meals charges of $200 per week apply. Financial Aid, including scholarship, is not available during this time. Courses during July will be added to the spring semester. Courses during August will be added to the Fall semester.
Continuing Education / Special Students
Special students who are not seeking a degree may take up to eight units a semester at the rate of $350 per unit, with housing and meals at the rate of $200 per week, or $750 per month (financial aid, including scholarship will not be available). Some courses have a higher tuition rate, such as Science of Creative Intelligence ($4,000) and MVS100 (TM Technique $2,000).

Information for Recipients of the Iowa Tuition Grant
In the event that available state funds are insufficient to pay the full amount of each approved Iowa Tuition Grant, the Iowa College Student Aid Commission has the authority to administratively reduce the maximum award to an amount less than the statutory maximum.

Important Notice
Maharishi University of Management reserves the right to change, without prior notice, University charges and policies.
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