

**LAWRENCE TECHNOLOGICAL
UNIVERSITY
GRADUATE CATALOG
2007–10**

Announcement of General Information and Courses in the Colleges of

Architecture and Design
Arts and Sciences
Engineering
Management

For the Academic Years 2007–10

VISIT THE CAMPUS

Lawrence Technological University welcomes prospective students, family members, employers, and others to visit. While on campus, prospective students are encouraged to discuss their educational plans with admissions staff and to meet current Lawrence Tech students, professors, or deans. Call the Office of Admissions toll free at 800.CALL.LTU (800.225.5588) to arrange an appointment or to request additional information. The Office of Admissions is open (except holidays) Monday – Thursday, 8 a.m. – 7:30 p.m., and Friday, 8 a.m. – 4:30 p.m. If you plan to visit during the summer, please contact the Office of Admissions for summer hours.

Lawrence Tech’s 102-acre full-service campus provides a full range of academic, recreational, and residential facilities, along with convenient access to major freeways. Southeastern Michigan is one of America’s hubs of business and commerce, the site of some of the world’s outstanding technological accomplishments.

ABOUT THIS GRADUATE CATALOG

This *Graduate Catalog* is a compendium of opportunities available at Lawrence Technological University. It includes information on academic programs, requirements for admission and graduation, rules, regulations, and expectations. Failure to read this *Graduate Catalog* does not excuse students from the requirements and regulations described herein. While every effort is made to provide accurate and current information, the University reserves the right to change rules, policies, fees, curricula, courses, and other programs described to reflect faculty or administrative action. This *Graduate Catalog* is accurate as of the publication date. Course descriptions are available online through BannerWeb at my.ltu.edu. For information about undergraduate programs, refer to Lawrence Tech’s *Undergraduate Catalog*.

STUDENT IMAGES

Lawrence Technological University reserves the right to use images of student work and of students on campus, or at any of its offsite locations, for the purpose of promoting the University. Students not wishing to be photographed should notify the registrar in writing when they register each semester.

Academic Schedules

SPRING 2007 SEMESTER

November 6 – 10	Advance registration
November 11 – January 14	Regular registration
January 14	Last day to register without a late fee
January 15	Classes begin; add/drop period begins/ late registration fee applies
January 15	Martin Luther King Day Celebration*
January 26	Last day to drop classes with tuition refund (no refund for classes dropped after Jan. 26)
January 27	Withdrawal period begins; late transaction fee applies for each course added
March 10	Last day of classes before mid-semester break
March 12 – March 17	Mid-semester break
April 9	Last day to withdraw
May 5	Last day of classes before final exams
May 7 – 11	Final exam week
May 20	Commencement
May 21	Spring 2007 semester ends

SUMMER 2007 SEMESTER

April 2 – 6	Advance registration
April 7 – May 15	Regular registration
May 15	Last day to register without a late fee
May 16	Classes begin; add/drop period begins/ late registration fee applies
May 29	Last day to drop classes with tuition refund (no refund for classes dropped after May 29)
May 30	Withdrawal period begins; late transaction fee applies for each course added
May 26	Last day of classes before Memorial Day
May 29	Classes resume
July 4	No classes – Fourth of July
July 5	Classes resume
July 11	Last day to withdraw
July 26	Summer 2007 Session ends

FALL 2007 SEMESTER

April 2 – 6	Advance Registration
April 7 – August 28	Regular Registration
August 28	Last day to register without a late fee
August 29	Classes begin; add/drop period begins/ late registration fee applies
September 1	Last day of classes before Labor Day recess
September 4	Classes resume
September 11	Last day to drop classes with tuition refund (no refund for classes dropped after September 11)
September 12	Withdrawal period begins; late transaction fee applies for each course added
November 21	Last day to withdraw
November 21	Last day of classes before Thanksgiving recess
November 26	Classes resume
December 15	Last day of classes before finals
December 17 – 22	Final Exam Week
December 22	Fall 2007 semester ends

SPRING 2008 SEMESTER

November 5 – 9	Advance registration
November 10 – January 13	Regular registration
January 13	Last day to register without a late fee
January 14	Classes begin; add/drop period begins/ late registration fee applies
January 21	Martin Luther King Day Celebration*
January 25	Last day to drop classes with tuition refund (no refund for classes dropped after Jan. 25)
January 26	Withdrawal period begins; late transaction fee applies for each course added
March 8	Last day of classes before mid-semester break
March 10 – March 15	Mid-semester break
April 7	Last day to withdraw
May 3	Last day of classes before final exams
May 5 – 10	Final exam week
May 18	Commencement
May 19	Spring 2008 semester ends

SUMMER 2008 SEMESTER

March 31 – April 4	Advance registration
April 5 – May 13	Regular registration
May 13	Last day to register without a late fee
May 14	Classes begin; add/drop period begins/ late registration fee applies
May 27	Last day to drop classes with tuition refund (no refund for classes dropped after May 27)
May 28	Withdrawal period begins; late transaction fee applies for each course added
May 24	Last day of classes before Memorial Day
May 27	Classes resume
July 4	No classes – Fourth of July
July 5	Classes resume
July 9	Last day to withdraw
July 26	Summer 2008 Session ends

The University reserves the right to make adjustments to the academic calendar as necessary.

*The University is open and classes are held on Martin Luther King Day. To afford all members of the University community who wish to do so an opportunity to participate in the Freedom Walk celebrating Dr. Martin Luther King's life and legacy, students, faculty, and staff may, upon request, may be excused from any scheduled classes, office hours, meetings, etc. Temporary help, substitute instruction, rescheduling, etc., will be provided as needed. During this period, all mandatory activities such as exams, presentations, or other graded activities will be deferred, although assignments may be made by email for subsequent sessions.

For Your Competitive Edge

Lawrence Technological University is an independent, co-educational accredited university founded in 1932 and offering over 60 academic programs at the associate, baccalaureate, master's, and doctoral degree levels. The University is composed of Colleges of Architecture and Design, Arts and Sciences, Engineering, and Management. Approximately 5,000 students are enrolled in full-time, part-time, day, evening, weekend, online, credit, and non-credit programs.

Lawrence Tech combines the benefits of a close, caring, small college atmosphere with the academic depth and scope of a larger university. Lawrence Tech takes a personal approach to education, and the University attracts students who generally have made some big plans for themselves. They're highly motivated students with a tremendous will to succeed, to excel, and to seek out the best in whatever they do.

Lawrence Tech has a reputation for excellence. Most students claim that the University's programs are rigorous and challenging – programs that unapologetically demand commitment. At the same time, as a result of their educational preparation, Lawrence Tech graduates report (in numbers well above national norms) that they arrive in the workplace feeling prepared and ready to do their jobs.

Independent studies also confirm that Lawrence Tech students rapidly achieve placement success. Some 93 percent of Lawrence Tech students are employed within one month of graduating. The American Society of Employers ranked Lawrence Tech first in its class as a preferred provider of graduates to Southeastern Michigan employers. *Standard & Poor's* has historically ranked Lawrence Tech in the top third of all colleges and universities providing the leaders of America's most successful businesses.

The heritage and educational philosophy of the University is reduced to just three words in the University motto, adopted shortly after Lawrence Tech was founded in 1932 – “theory and practice.” It means that Lawrence Tech seeks to explain not only why something should work, but how it works in real situations and applications.

Much of the student's learning in this way will be gained directly from Lawrence Tech's professors. Many Lawrence Tech faculty have years of successful industrial and professional experience in addition to academic credentials from some of the nation's top universities and colleges. They've learned what succeeds in the “real” world, and they'll try to make sure that students do, too.

In addition, there is unusually close interaction between the University and the professions that its students and graduates serve. Assuring that academic programs provide students with the types of contemporary skills employers value is a special goal.

Another attribute is the University's location in close proximity to some of the world's leading industrial, technological, business, and scientific enterprises. The relationship is more than geographic – it assures the University's participation in “cutting edge” advancements and “front office” accessibility by students interested in co-op, part-time,

and networking opportunities. Over 200 *Fortune 500* corporations have headquarters or major operations within a half-hour's drive of Lawrence Tech's campus.

Finally, Lawrence Tech students are strongly encouraged to interact with the professional world throughout their academic program. Dozens of professional societies are active on campus and help students network with men and women already working in specific fields. Many of the academic programs also require participation in professional projects that seek to solve real problems facing practicing architects, engineers, managers, scientists, and others. The projects expose students to a host of real-world challenges, and Lawrence Tech students regularly earn top awards in competitions that pit them against students from other colleges and universities throughout the hemisphere.

There is an intangible "spirit" at Lawrence Tech – an earnest spirit of student and faculty enthusiasm for learning and living, and a spirit of motivation and desire to excel. It's not confined to the classroom or the laboratory; it's an all encompassing feeling – both a reality and an ideal. Consider Lawrence Tech. Share the spirit!

MISSION, VISION, AND CAUSE

Lawrence Technological University was founded as an independent nonprofit institution of higher learning.

The University's mission is to develop leaders through innovative and agile programs embracing theory and practice.

Lawrence Technological University's vision is to be a preeminent private university producing leaders with an entrepreneurial spirit and global view.

Lawrence Tech's cause is the intellectual development and transformation of our students into critical thinkers, leaders, and lifelong learners.

LAWRENCE TECH'S STATEMENT OF VALUES

Our values are the link between theory and practice, teamwork and trust, and character and integrity. We believe in open, honest communication within an active learning environment that:

1. Is committed to academic excellence, diversity, and the development of the whole person.
2. Anticipates and meets the needs of our constituents: students, faculty and staff, alumni, donors, and industry neighbors.
3. Creates leadership opportunities for the growth and development of a diverse faculty and staff.
4. Links theory and practice with innovative programs and delivery.

ACCREDITATION AND MEMBERSHIPS

Lawrence Technological University is accredited by The Higher Learning Commission of the North Central Association of Schools and Colleges, phone: 312.263.0456; website: ncahigherlearningcommission.org. The Higher Learning Commission accreditation report

is on file in the University's library and is available for public review by patrons. Various graduate and undergraduate degree programs in architecture, interior architecture, imaging, business administration and management, chemistry, and engineering are additionally accredited through appropriate national professional agencies.

Lawrence Tech's institutional memberships include the American Society for Engineering Education; the Association of American Colleges and Universities; the Association of Collegiate Schools of Architecture; the Association of Collegiate Business Schools and Programs; and the National Collegiate Inventors and Innovators Alliance. The University is also a member of the American Council on Education; Association of Governing Boards of Universities and Colleges; Association of Independent Colleges and Universities of Michigan; Automation Alley; the College Board; Council for Higher Education Accreditation; EDUCAUSE; Engineering Society of Detroit; International Assembly for Collegiate Business Education; MichBio; Michigan Student Financial Aid Administrators; Midwest Association of Student Financial Aid Administrators; National Association of Independent Colleges and Universities; National Association of Student Financial Aid Administrators; and National Financial Aid Association. In addition, the University has membership in the Michigan and American Associations of Collegiate Registrars and Admissions Officers; the Southfield, Greater Detroit, and U.S. Chambers of Commerce; Michigan, Ohio, and National Associations of College Admissions Counselors; American Association of University Administrators; Association of College Administration Professionals; Advanced Acceptance Program; and the Michigan and National Associations for Foreign Student Affairs.

Faculty and staff are additionally members of a wide variety of local, state, and national professional organizations appropriate to their disciplines. Professional organizations with active student chapters at Lawrence Tech are listed in the Your Campus and Community section of this Catalog.

DAY, EVENING, WEEKEND, AND ONLINE CONVENIENCE

Lawrence Tech's graduate programs are designed for working professionals. All are offered in the evenings and several are also available on weekends. Many graduate classes are offered in a hybrid format, where half of scheduled classes meet in a classroom and half online. Other graduate classes are offered completely online.

The University's bachelor's degree classes are offered in both day and evening schedules that complement each other. Lawrence Tech is one of only a few universities to offer a complete selection of bachelor's and graduate degree programs in the evening. The University was one of the nation's first to pioneer the offering of then-novel evening degree programs in 1932.

Both graduate and undergraduate classes are offered on a semester calendar – two semesters of 16 weeks. The College of Management offers programs in three to 13-week segments throughout the year. The fall semester begins in late August and ends in mid-December. The spring semester begins in January and ends in mid-May. There is also a summer session that offers students the opportunity to accelerate and continue academic progress or make up deficiencies.

CLASSES AND FACULTY

Lawrence Tech's moderate size encourages close interaction between students, faculty, and staff. Classes are generally small, especially for upperclassmen, and individual initiative is stressed.

Lawrence Tech has over 400 full- and part-time faculty members. Exemplifying the University motto of "theory and practice," in addition to academic experience, many also bring a wealth of personal "real world" research, business, or industrial experience to the classroom or laboratory. In addition to courses taught by Lawrence Tech's full-time professional faculty, it isn't unusual for students in appropriate disciplines to take classes taught by adjunct faculty who are successful corporate executives, practicing accountants, managers, entrepreneurs, engineers, architects, attorneys, and scientists. Such exposure is deliberate on the part of the University and seeks to help students develop an awareness of the most current "real world" problem-solving applications of their academic studies.

Lawrence Tech students find that their professors are normally easily accessible and that they are eager to discuss individual questions, academic progress, or concerns outside of class. The University has a tradition of an "open door" policy with faculty, department chairpersons, deans, the president, and other administrative staff.

DIRECT STUDENT INTERACTION

The successful Lawrence Tech student generally arrives on campus with a full measure of ability and self-initiative. Self-initiative is Lawrence Tech's term for a proper combination of motivation and self-reliance. These students appreciate the institutional position that the University exists for, and interacts with, the student – not relatives, spouses, or friends wishing to represent them. The fact that Lawrence Tech students are of a maturity that requires no such representation helps ensure that they are prepared for responsible full- or part-time employment during their academic career and, following graduation, for professional employment or continued study.

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

Continuing education and professional development are vital components in career development and are reflected in today's critical need to prepare for the future. Lawrence Tech's Professional Development Center assists organizations and individuals in maintaining their competitive edge in today's marketplace by increasing skills, knowledge, and productivity, whether focused on technical, production, managerial, administrative, or executive issues.

Lawrence Tech offers many special non-degree academic opportunities. Services range from one-time onsite training sessions to customized development of entire training curricula. The Professional Development Center utilizes a range of resources, calling upon the extensive skills and talents of a variety of consultants, instructors, curriculum designers, trainers, and educational developers, whose services are complemented by a support staff that works closely with every client.

Working with the colleges of the University, the Professional Development Center designs, develops, and delivers non-degree credit programs in Six Sigma, lean training, project management, leadership and executive coaching, and insurance studies. Other services include:

- Public programs in the form of seminars, workshops, conferences, and symposia which serve the professional development needs of alumni and the University's constituent audiences;
- Employee development and training programs, which are typically offered off-campus to business, industry, government, and professional associations;
- Mentoring and career coaching.
- Consulting.

For further information on professional development programs and/or related meeting services, contact the Professional Development Center at 248.204.4050.

Your Campus and Community

Lawrence Technological University's park-like 102-acre campus continues to expand and now includes 12 major buildings. An exciting program of improvements continues throughout the campus and includes the new A. Alfred Taubman Student Services Center, which provides a convenient centralized student service location, meeting rooms, and more.

Lawrence Tech's location is considered by many to be one of the University's greatest assets, particularly taking into account the wealth of nearby opportunities for students to network with practicing professionals, participate in career-related organizations, and find full- and part-time employment during college and after graduation.

Located near the exact center of population of southeastern Michigan, the University is conveniently situated in the Oakland County city of Southfield, a suburban community of more than 78,000 people. For visitors traveling by car, the campus is about 30 minutes northwest of downtown Detroit. It is also about 30 minutes northeast of Detroit Metropolitan Airport. Lawrence Tech is easily reached via the interstate highway system and is situated at the intersection of West Ten Mile Road and Northwestern Highway (M-10, the Lodge Freeway), just south of Interstate 696.

The campus is at the center of the world of real work, real problems to be solved, and real possibilities for a full professional and cultural life. Southeastern Michigan is a hub of American business and industry. It is a manufacturing and corporate center, the site of some of the world's outstanding technological accomplishments, and a focal point for cultural activities and recreation.

Within a 15-mile radius of campus are world headquarters for many of the nation's leading research, industrial, and manufacturing firms. More than 200 *Fortune 500* companies are headquartered or have major operations here. And while the area's economy is substantially more diverse than in the days when the region was dubbed the world's auto capital, fully one third of all U.S. auto production still takes place within 70 miles of the campus – in some of the planet's most sophisticated, highly automated, and innovatively managed work environments.

Lawrence Tech is part of the Oakland County/Automation Alley SmartZone, one of the state's foremost concentrations of and magnets for high tech business and enterprise. The University is also the designated Small Business Development Center for Oakland County, with specialization in technology.

Oakland County ranks as the fourth wealthiest county in the nation among counties with populations in excess of one million. Retail sales in the county alone exceed those of 14 states and the District of Columbia. The county is a leading center of international commercial activity and home to some 700 foreign-owned firms from 33 countries. About 46 percent of Michigan's automotive R&D firms have locations in the county, as do 90 percent of the nation's original equipment manufacturers. Robotics firms in the county account for more than half of U.S. robotic sales. *Fortune 500* companies are well represented, with 60 percent having at least one location here.

Nearby recreational opportunities abound – over 450 lakes, five ski areas, nearly 30 public fishing sites, and more golf holes per capita than any other place in the country. Major entertainment facilities within a half-hour drive include the DTE Energy and Meadowbrook outdoor music theaters, the Pontiac Silverdome, the Palace of Auburn Hills (home of the NBA Pistons), Joe Louis Arena (home of the NHL Red Wings), Ford Field (home of the Detroit Lions), and Comerica Park (home of the Detroit Tigers). Additional attractions include the Cranbrook Museums, the Detroit Zoo, the Detroit Institute of Arts, Detroit Historical Museum, Motown Museum, The Henry Ford, New Detroit Science Center, Charles H. Wright Museum of African American History, and more.

CAMPUS BUILDINGS

Lawrence Tech’s **University Technology and Learning Center**, opened in 2001, is a \$20 million, 87,000 sq. ft. building housing a variety of technology labs and studios. It also houses the University Gallery, Maibach Inter-Faith Lounge, Lear Auditorium, Denso Interactive Center, Media Services, and more. The building connects on either end to the Architecture and Engineering Buildings.

The **Architecture Building**, completed in 1962, houses classrooms, studios, the College of Architecture and Design, and the Veraldi Instructional Technology Resource Center. A 325-seat auditorium is also located here, as well as a gallery for changing exhibits.

The **Wayne H. Buell Management Building** is an 115,000 sq. ft. structure dedicated in memory of Lawrence Tech’s third president. Opened in 1982, it houses the College of Management, Library, Dining Commons (Café Lawrence), and the Bookstore. A university lounge and the offices of the president, provost, vice president of university advancement, and marketing and public affairs are also here. A fully enclosed three-story atrium hosts a variety of special events as well as the Larry Joe, a student-designed coffee kiosk and an ATM.

Designed as a one-stop center bringing together all the services students need to succeed, the 42,000 sq. ft. **A. Alfred Taubman Student Services Center** is also a “living laboratory” of sustainable design and engineering. Opened in 2006, the building’s innovative features include a “green” roof that captures and purifies water runoff for recycling and 88 geothermal wells that provide pollutant-free heating, air conditioning, and ventilation. The physical heart of campus, the Taubman Center houses the Academic Achievement Center, Student Computing Center, and Welcome Center as well as the Offices of Admissions, Career Services, Financial Aid, Dean of Students, Registrar, and Student Activities. The building is connected to the Buell Management Building and the Science Building.

Lawrence Tech’s **Engineering Building** was most recently expanded in 1987; it was the first building on the Southfield campus when it opened in 1955. The building houses offices for the College of Engineering, vice president of finance and administration, business services, and human resources. In addition, the structure houses classrooms and laboratories.

Connected to the Engineering Building is the **Center for Innovative Materials Research (CIMR)**, a state-of-the-art laboratory for the research, development, and testing of carbon fiber composites and other advanced materials such as ceramics and polymers for defense, homeland security, automotive, and infrastructure applications. Dedicated in 2008, CIMR was made possible by an \$11 million cooperative research agreement with the Army Research Lab and the U.S. Army Tank-Automotive Research, Development and Engineering Center – an unprecedented federal partnership with a private Michigan university.

The **Science Building**, opened in 1967, was extensively renovated and equipped with upgraded computer and multi-media equipment in 1999. It houses classrooms, laboratories, and offices for the College of Arts and Sciences – including the Departments of Natural Sciences; Mathematics and Computer Science; and Humanities, Social Sciences, and Communication. The Edward Donley Computer Center is also here. A 303-seat auditorium is located at the south end of the building.

Lawrence Tech's residence halls, **Housing-South** and **Housing-North**, opened respectively in 1977 and 2002, provide modern, fully furnished air-conditioned apartment-style units and together house nearly 600 students. See the Student Housing section that follows for additional information.

The **Don Ridler Field House, Art and Design Center, and Applied Research Center**, added in 1987, together offer a wide variety of recreational, meeting, applied research, design, and educational facilities. The complex includes classrooms, studios, and offices for the Automotive Engineering Institute, campus facilities, campus safety, mailroom, Formula, Baja, and aeronautical student teams, student recreation, and student organizations and clubs, including the Student Government and the Interfraternal Council. The Ridler Field House includes a 1,500-seat gymnasium, exercise track, weight and conditioning room, saunas, racquetball courts, and locker facilities.

The **Professional Development Center**, built in 1959 and substantially upgraded in 1996, houses the offices and facilities for non-degree professional training and business acceleration.

The **Maintenance Building** provides storage for supplies, maintenance, and landscape equipment.

Outdoor Athletic Facilities include softball diamonds and football and soccer practice fields. Plenty of free, lighted, paved **parking** is available on campus. There are no restrictions limiting student use of automobiles; however, student vehicles must display a current parking permit (available from the Taubman Student Services Center or the Department of Campus Safety), and students are expected to obey the University's parking and speed regulations. Designated visitor and handicap parking is available near all buildings.

The **Gregor S. and Elizabeth B. Affleck House**, designed by Frank Lloyd Wright and completed in 1941, was given to the University in 1978 by the late Afflecks' children, Mary Ann Lutomski and Gregor P. Affleck. The home has been restored by the University

and is located in the nearby city of Bloomfield Hills. It is considered an outstanding example of Wright's Usonian Prairie Style. The Affleck House is managed by the College of Architecture and Design.

ACTIVITIES AND ORGANIZATIONS

Whatever their particular interests or needs, students can find a campus activity or organization that will provide not just fun and fellowship but also opportunities to develop their professional and leadership skills. Joining a campus club or organization can help students prepare for life after college or simply provide a great way to relax and recharge. As they look back on their college years, alumni often say that some of their most rewarding experiences came from their participation in co-curricular activities.

So take a look at the list that follows, choose one (or several) activities and become involved! And remember to let the Office of Marketing and Public Affairs know what your organization is doing. The staff there can help with publicity and regularly reports news of campus activities to the press, radio, and television.

The need for new friends and new interests may be fulfilled, in part, by becoming involved in one or more of the activities, clubs, or professional organizations on campus. Fellowship, leadership opportunities, fun, and rewarding experiences come from such memberships. Combined with the formal education on campus, these organizations help students prepare for the challenges of tomorrow.

To be eligible to run for office in any campus organization, students must have a cumulative grade point average of at least 2.0. They will be requested to withdraw from office at the end of any semester in which their semester grade point average falls below 1.8. In order to hold a Student Government office, a student must maintain at least a 2.3 grade point average. Students interested in forming new organizations should contact the director of student activities or Student Government president for assistance and for membership in the Student Government, whose approval is necessary for official recognition and funding assistance.

Professional and Student Organizations

Student Government

The Lawrence Tech Student Government is recognized by the University administration as the official representative for the entire student body. It offers the opportunity for students to better themselves and their University through involvement in campus activities. Every student is extended an invitation to attend the many campus activities sponsored and supported by the Student Government.

Student Government business is conducted twice monthly. All interested students are encouraged to attend meetings and express their views. Contact the Student Government through the Office of Student Activities and Recreation. The Student Government actively endorses all Lawrence Tech clubs and organizations that are beneficial to personal and scholastic achievement.

The Student Government is composed of three interacting branches working in cooperation with each other. They are the Student Administration, the Student Senate, and various committees. The Student Administration consists of a president, vice president, and treasurer, who are elected in a spring campus-wide election. A secretary and various committee chairmen are appointed by the president and approved by the Senate. Students become eligible to be members of a Student Government committee by simply attending the meetings. Members of the Student Senate include official representatives from each recognized club and organization and three appointed senators-at-large. Senators are the only voting members at Student Government meetings. All business concerning the Student Government is brought before the Student Senate for approval. The Student Government recognizes five standing committees: Technology, Blood Drive, Scholarship, Social, and Charity.

Students Planning Activities Monthly (SPAM)

S.P.A.M. is a student-based organization that coordinates campus activities that enhance and enrich the quality of student life at Lawrence Tech by addressing the needs and interests of its diverse student body. SPAM is open to all students from all academic majors. Members attend the annual National Association of Campus Activities mid-America and national conferences, monthly meetings, and SPAM-associated events. To get involved, contact the coordinator of student activities at 248.204.4105 or email stuevent@ltu.edu. Monthly event information is available at ltu.edu/student_affairs/spam1.asp.

Professional Organizations

Alternative Energy Student Group (AESG)
American Chemical Society (ACS)
American Institute of Architecture Students (AIAS)
American Society of Civil Engineers (ASCE)
American Society of Interior Designers (ASID)
American Society of Mechanical Engineers (ASME)
Associated General Contractors of America (AGC)
Association for Computing Machinery (ACM)
The Engineering Society of Detroit (ESD)
Institute of Electrical and Electronic Engineers (IEEE)
Michigan Society of Professional Engineers (MSPE)
National Society of Black Engineers (NSBE)
Society of Automotive Engineers (SAE)
Society of Physics Students
Society of Women Engineers (SWE)

Honor Societies

Chi Epsilon
Eta Kappa Nu (Theta Upsilon Chapter)
Lambda Iota Tau and Tau Iota
Pi Tau Sigma (Phi Iota Chapter)
Sigma Pi Sigma
Tau Beta Pi (Michigan Eta Chapter)
Tau Sigma Delta

Clubs and Publications

Anime Group (LAG)

Artists' Guild

Atheneum

Biomedical Engineering Society (BMES)

Campus Crusade for Christ

Collegiate Entrepreneurs' Organization (CEO)

Computer Gaming Club

Detroit Metropolitan High School Mathematics and Computer Club (DMHSMC2)

Math Club

Mich Bio

Musicians' Society

Prism

Residence Hall Association

Ski and Snowboarding Club

Society of Dramatic Arts (SODA)

Students Planning Activities Monthly (SPAM)

Student Alumni Council

Students Taking a New Direction (STAND)

Tech News

Toastmasters International

GREEK LIFE

Interfraternal Council

This organization provides coordination and improves communication among the various Greek-letter social organizations on campus.

Greek Letter Organizations

Alpha Kappa Alpha Sorority, Inc.

Alpha Sigma Phi Fraternity

Chi Omega Rho Sorority

Delta Phi Epsilon Sorority

Delta Tau Sigma Sorority

Phi Beta Sigma Fraternity, Inc.

Phi Kappa Upsilon Fraternity

Sigma Phi Epsilon Fraternity

Sigma Pi Fraternity

Theta Tau Fraternity

Theta Xi

ATHLETICS AND INTRAMURALS

Intramurals

Intramural sports, which are free to all students, include football, softball, basketball, indoor soccer, racquetball, wallyball, and volleyball. Rock climbing, skiing and snowboarding, golf scrambles, a 5K run, paintball, and other outings are sponsored by the Office of Student Recreation. Any group of students is welcome to form teams and submit the names to the office for scheduling of games.

Club Sports

Club sports allow Lawrence Tech students to compete with clubs and varsity teams from other colleges and universities. Curling, soccer, and ice hockey are currently offered, and other sports are possible if student interest is sufficient to field teams.

STUDENT HOUSING

University Housing at Lawrence Tech provides more than just a room in which to sleep and study. The living and learning environment that is fostered within University Housing supports students' academic, social, cultural, and personal goals. University Housing staff are committed to assisting residents in all aspects of their collegiate experience by providing a safe and healthy environment in which to pursue their academic goals, promoting the ideals of community living by emphasizing personal responsibility and respect for others, creating opportunities for student involvement and personal development, and offering advice and information to residents.

It is a fact that most students who initiate their university experiences by living on campus will progress further in their course work and be more successful. When students are successful in the classroom and have support outside the classroom, their university experience will not only be memorable but can also play a valuable part in life after graduation.

The camaraderie that develops among residents is unequalled by any other living option. Residents who take advantage of this environment tend to improve both their academic performance and their satisfaction with their college experience. Each residence hall community offers opportunities for students to get involved in numerous activities and programs.

Lawrence Tech focuses on creating an environment that develops the "whole person." Two modern apartment-style residence halls accommodate about 600 students on campus. Campus living is more than just convenient – it's a terrific way to take advantage of the full range of academic, social, and other opportunities that are an important part of your university experience.

Each of Lawrence Tech's residence halls feature both one- and two-bedroom fully furnished suites that include full kitchens, full baths, living and eating spaces, and many other amenities. The \$12 million University Housing-North, opened in 2002 near the campus center, contains four floors of suites anchored by central community rooms. University Housing-South, opened in 1977, has undergone some \$3.1 million in refurbishing, including new paint and carpeting. It contains nine floors of suites overlooking the south campus and a nature preserve/wetland.

In addition to the University Housing professional staff member in each building who can assist you with your residential needs, among the residents are upper-class students who are community leaders and who "know the ropes." Their knowledge of campus resources, personnel, and other campus attributes can maximize your Lawrence Tech experience. On the First Year Experience floors, there are also resident mentors who serve as role models

and provide academically focused programs. Each building has a community assistant who coordinates various social and educational opportunities for the residents.

Several neighborhood shopping centers are located nearby, as are restaurants, banks, gasoline stations, dry cleaners, and other services. Two regional shopping malls are within a five-minute drive and the entire metropolitan area is easily accessible via the nearby Lodge (M-10) and I-696 freeways. Taxis and limited public bus routes serve the area. The recreational facilities of Lawrence Tech's Don Ridler Field House and outdoor playing fields are only a short walk or bike ride away. The recreational facilities of the nearby Southfield Civic Center are available to campus residents and include tennis courts, handball courts, a nine-hole golf course, Olympic-size pool, and indoor ice rink.

University Housing-North offers:

- 68 one- or two-bedroom fully furnished suites
- Full bathroom with a bathtub/shower for each bedroom
- Full kitchen in each suite with a stove, refrigerator, microwave, dishwasher, and garbage disposal
- Washer and dryer in each suite
- Wireless and wired connectivity in each suite
- 24-hour security with card access
- Cable and utilities included
- Free adjacent parking

University Housing-South offers:

- 123 one-or two-bedroom fully furnished suites, many with balconies
- Full bathroom with bathtub/shower for each suite
- Full kitchen in each suite with stove and refrigerator
- Washers and dryers in common facilities
- Wireless connectivity in each suite
- 24-hour security with card access
- Cable and utilities included
- Refurbished lounge areas
- Fresh carpeting
- Free adjacent parking

For tours, rates, and other information about Lawrence Tech's residential options, contact the Office of University Housing at 248.204.3940.

OTHER HOUSING

The Southfield and northern metropolitan area abounds with a variety of privately owned rental housing, ranging from rooms, small homes or duplexes available from individuals, to large complexes containing hundreds of units. Most require a 12-month lease.

RENTER'S INSURANCE

Students residing in University Housing, or in locations other than their family home, are advised to secure tenant's insurance on their personal belongings and furnishings to protect against loss, theft, or damage.

AFTER GRADUATION

Lawrence Tech alumni include a distinguished group of engineers, architects, scientists, business executives, managers, technicians, attorneys, physicians, governmental officials, educators, and others holding key positions throughout the United States and around the world. *Standard & Poor's* has historically ranked Lawrence Tech in the top third of all colleges and universities that provide the leaders of America's most successful companies.

About 80 percent of Lawrence Tech's over 30,000 alumni reside in Michigan and the Midwest, but alumni also live in nearly every state and territory, as well as in Aruba, Australia, the Bahamas, Bermuda, Brazil, Canada, Chile, China, Colombia, Ecuador, England, France, Germany, Greece, Guyana, Hong Kong, Iran, Ireland, Israel, Jamaica, Japan, Jordan, Lebanon, Malaysia, Mexico, the Netherlands, Nigeria, Norway, Pakistan, Peru, Saudi Arabia, Scotland, Singapore, Sweden, Taiwan, Thailand, United Arab Emirates, Venezuela, and Zambia.

Lawrence Tech's Alumni Association is the international forum for active graduates. The Association hosts a full service website, ltu.edu/alumni, providing access to everything from lifetime email accounts and an events calendar to job search assistance. The Association holds meetings and sponsors a variety of activities and services for members in the Southeast Michigan area; chapters elsewhere in Michigan and in Arizona, California, Colorado, Florida, Georgia, Illinois, Indiana, North Carolina, Ohio, and Texas also meet regularly. Several chapters based on academic interest are also active. The Office of Alumni Relations coordinates alumni activities and serves as a campus liaison for alumni worldwide.

Services for Students

ACADEMIC COUNSELING AND TUTORIAL SERVICES

All new students are expected to attend orientation sessions prior to or during their first semester on campus. During these sessions student opportunities, responsibilities, and regulations are presented, and registration is completed. A number of University counselors are available for academic advice, counseling, and registration assistance.

The coordinator of disability services also works with the colleges to coordinate services for handicapped students and tutorial services. Contact the appropriate academic department or the Office of Disability Services for information.

ACADEMIC ACHIEVEMENT CENTER

The Academic Achievement Center (AAC) provides free academic support services to all students. Students come to the AAC to get help with homework or test preparation, compare notes, meet with study groups, or study quietly. Tutoring is provided in person and online for core classes in architecture and design, biology, chemistry, computer science, engineering, ESL, mathematics, physics, and writing. Appointments are suggested for every day except Wednesday and can be scheduled online.

Testing Services (proctored testing) are offered for students who are unable to complete quizzes or exams during regularly scheduled class time. When not in use for testing, private rooms are open for general student use.

Pre-course preparation workshops are offered for key classes prior to the start of the fall and spring semesters. Pre-courses help students review material and give them a preview of the upcoming courses' content. These workshops are led by student tutors. Study skills workshops, individual study habit consultations, and study strategy handouts are available, and students can access First Year academic support programs and Writing Proficiency exam and prep workshops through the AAC.

The center also has computer workstations, a photocopier and other electronic resources for student use, and conference rooms can be reserved. The AAC is located on the lowest level of the A. Alfred Taubman Student Services Center in C201. Fall and spring semester hours of operation are Monday through Thursday, 8 a.m. – 8 p.m., and Friday, 8 a.m. – 4:30 p.m. Summer and weekend hours vary and are posted outside the entrance.

ADMINISTRATIVE SERVICES

The DTE One-Stop Center for Enrollment Services offers extended hours to assist with business services, cashier, financial aid, and registrar activities and is located in C302, Taubman Student Services Center.

ADMISSIONS COUNSELING

Counselors in the Office of Admissions (C304, Taubman Student Services Center) are available to answer any questions regarding admissions policies, procedures, or course credit transfers.

ATM (CASH MACHINE)

An ATM (cash machine) is located in the atrium of the Buell Management Building.

BOOKSTORE

The University Bookstore, located in the atrium of the Buell Management Building, offers books, instruments, supplies, software, greeting cards, snack items, and a wide variety of other items for purchase. A “spirit shop” features clothing, gifts, and distinctive custom signature items emblazoned with Lawrence Tech’s name.

BUILDING HOURS

All campus facilities are open Monday through Friday from 7 a.m. to 11 p.m. Students wishing to use facilities after normal hours must file a usage authorization request form with their professor, instructor, or faculty advisor, who, in turn, submits the form to the appropriate dean or department chairperson. The form must then be forwarded to the directors of Campus Facilities and Campus Safety. During study days/finals most university facilities remain open to accommodate individual and group study.

CAREER SERVICES AND INTERNATIONAL PROGRAMS

The Office of Career Services and International Programs is much more than a place where students can go to find a job when they graduate. Career Services provides a wide variety of services and programs that, as early as the freshman year, can help students develop their career plans and establish career goals by identifying their abilities, values, and interests, and then targeting occupations that reflect those same abilities, values, and interests. The office can also help students gain experience in their chosen fields.

Services include career advising, on-campus employment, cooperative education and internships, career workshops, resume critiques, mock interviews, career fairs, employer presentations, and on-campus interviews. Career Services provides an online placement service. Students may post their resumes for viewing by prospective employers and can also view job postings.

The Office of International Programs provides services for international students and scholars and sponsors international programs and events on campus. It also offers orientation sessions for all newly admitted international students and assists in bringing international visitors and professors to campus.

The Office of Career Services and International Programs is located in C404, Taubman Student Services Center, and is open daily 8 a.m. – 4:30 p.m. with extended hours (until 7 p.m.) Monday – Wednesday during the fall and spring semesters. Please call for extended hour schedule.

COMPUTER HELP DESK

Located on the lower level of the Taubman Student Services Center, the Help Desk provides assistance to students with Lawrence Tech laptops. Call 248.204.4080 or email helpdesk@ltu.edu.

COMPUTER RESOURCES

Lawrence Tech's technology environment seeks to assure that students are well prepared and positioned to take full advantage of advanced learning opportunities, greater access to educational resources, and ultimately, are provided a competitive edge in the workplace. Lawrence Tech's computer resources can be tremendously helpful to students as they learn, retain, analyze, present, use, and exchange complex technological and graphical information.

Lawrence Tech's comprehensive e-learning and services portal, my.ltu.edu, offers an expanding variety of resources and conveniences. Among them is Blackboard, a comprehensive and flexible e-learning software platform that delivers the University's course management system, customized institution-wide portals, online communities, and an advanced architecture that provides for Web-based integration with the University's administrative systems.

The University's course management system offers students the 24/7 access to professors and fellow students that is not available in the typical classroom environment. Professors post their syllabi online, as well as class lectures and assignments for immediate retrieval anytime, anywhere. Other features available through Blackboard are discussion boards for posting questions to and receiving answers from other students and the professor in the class; the Virtual Chat Room for synchronous communication with the entire class; and the Digital Drop Box, which allows students to send completed assignments to professors online.

Registering for classes, inquiries about account balances and financial aid disbursements, internal and external job searches, payment of balances, and access to the library databases are among the large number of additional services available to Lawrence Tech students through my.ltu.edu.

The University provides considerable resources for staff and faculty training through the Veraldi Instructional Technology Resource Center (VITRC). VITRC enhances the teaching and learning process in the university community. It promotes the integration of emerging technology tools into classroom instruction. The University also provides other resources such as enhancing a service infrastructure and making extensive improvements to campus facilities that allow students to utilize computer technology to their best advantage.

Lawrence Tech is Michigan's first wireless laptop campus, allowing connectivity to the University's network and the Internet2 anywhere anytime. In addition, selected classrooms and all the architecture studios are set up to allow Ethernet broadband connectivity through laptop computers.

Lawrence Tech also offers a variety of computer laboratories and resources. The University's Edward Donley Computer Center (EDCC) supplies all registered students with free, required computer accounts. The EDCC's client server central processing units offer extensive and protected disk storage. All students, faculty, and staff may access personal accounts on this system from their laptops, a campus terminal or microcomputer, or from off campus.

The goal is to enjoy the best of both worlds – the speed and graphics capability of a single-user PC and the seamless connectivity of the central system's worldwide Internet communication. The combination extends Lawrence Tech's learning experience to innumerable subjects via the Internet. A fiber optic "backbone" provides cutting edge technology and high-speed computing and media access to the entire campus.

Training sessions, self-paced study courses, and other online assistance help students learn to use the computer – these aids are in addition to programming classes. Electronic mail provides communication between students, faculty, and administrators and is considered the official means of University communication. Professional state-of-the-art software is used by students and faculty in their fields of expertise. In addition, word processing, spread sheet, and graphics programs are available, along with job search services from the Office of Career Services and International Programs.

High-powered PC workstations loaded with appropriate software are available in campus labs on a first-come, first-served basis. Generally, these are "open labs," although a lab may be reserved by an instructor for a class period. Reserved lab hours, when in effect, are posted.

CONFERENCE SERVICES

Business meetings, wedding receptions, summer camps, and other social events – these are just a few of the opportunities available through Lawrence Tech's Conference Services. The University offers a reasonable alternative for your facility needs. Excellent service, superb catering, and audiovisual capabilities will make your experience a pleasant one. Contact the conference services coordinator located in C405 of the Taubman Student Services Center at 248.204.4110 to assist you in planning your event.

COUNSELING

A wide variety of personal counseling is offered on campus, aimed at helping students succeed in their studies, develop study skills, and cope with crisis, stress, or other difficulties. Each of the colleges also offers academic advising and tutoring (see Student Affairs section).

DEAN OF STUDENTS

The Office of the Dean of Students serves as the central resource for activities that are coordinated through the Division of Student Affairs. The dean of students serves as the primary advocate for students and works to insure that students are offered a quality college experience. Staff members in the Division of Student Affairs provide services to help students successfully complete their academic studies and coordinate opportunities for fellowship, fun, and rewarding college experiences. The Office of the Dean of Students offers personal, confidential, and nonbiased assistance in addressing any concerns a student may have regarding his or her rights or responsibilities as a member of the campus community. Services coordinated by the Office of the Dean of Students include:

Student Events and Activities

Staff members coordinate annual social events to encourage students to interact with each other on campus. Popular programs include the fall semester Welcome Back Picnic, New Student Convocation, College Honors Reception, Coffee on Us programs, movie nights, and Pushing Honey Through awards for supportive family members.

Student Code of Conduct Adjudication Services

Honesty, integrity, and caring are essential qualities of an educational institution, and a concern for values and ethics is important to the whole educational experience. The *Student Code of Conduct* outlines the rights and responsibilities and expected levels of conduct of students in the University community. Fundamental to the achievement of community among the members of the University is the recognition by all such members that each shares a responsibility to observe University regulations. This obligation, which is an extension of the citizen's responsibility to observe the law of the land, is an essential corollary to participation in the academic rights afforded to members of the University. A student voluntarily joins the Lawrence Technological University community and thereby assumes the obligation of abiding by the standards prescribed in the *Student Code of Conduct*. The University, through the Office of the Dean of Students, maintains the exclusive authority to impose sanctions for behaviors that violate the *Student Code of Conduct*.

Support Services

Students needing assistance with personal or academic challenges during their college career are welcome to contact staff in the Office of the Dean of Students, who can act as liaisons between students and faculty. Academic study skills development and strategies for becoming self-efficient learners are provided by staff in the Academic Achievement Center and through Clinical Counseling Services in the Office of the Dean of Students at 248.204.4100. The dean's office is located in C405, Taubman Student Services Center.

DINING SERVICES

Café Lawrence, located on the second floor of the Buell Management Building, is open during the fall and spring semesters and provides dining services for the entire campus community, including take-out meals, catering, special events, and more. Students may choose from any one of these meal plan options: Traditional-80 Plan, Nifty-50 Plan, or the Bargain-160 Plan. Declining balance credit accounts (Café Cash Card) can also be purchased at Café Lawrence for use during the fall and spring semesters. Dining Services oversees the student-run coffee kiosk, Larry Joe, located in the atrium of the Buell

Management Building. This is a great place to meet fellow students to review notes or to get a quick bite to eat. Special events and dinners may be arranged with the dining services director.

DISABLED STUDENTS

The Office of the Dean of Students, 248.204.4100, and the Office of Disability Services, 248.204.4110, coordinate Lawrence Tech's compliance with Sections 503 and 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. The University does not discriminate against students with disabilities in recruitment, admission, or treatment after admission. In addition, the University makes reasonable accommodations to permit students with disabilities to fulfill academic requirements and provides effective auxiliary aids to ensure that they are not excluded from programs because of their disabilities. Eligibility for accommodations is determined on an individual basis. For additional information on eligibility for services, accommodations, and student responsibilities, refer to Lawrence Tech's website or contact the disability services coordinator at 248.204.4110 to schedule an appointment. Students who believe that the University may not be meeting these responsibilities or who believe that they have been otherwise discriminated against based upon their disability may contact the Section 504 officer at the Office of the Dean of Students, Taubman Student Services Center, Room C404.

DIVISION OF STUDENT AFFAIRS

The Division of Student Affairs coordinates efforts, programs, and services that support the development of a vibrant learning community on campus. The division's purpose is to support students, staff, and faculty in achieving the educational mission of Lawrence Tech by creating communities that foster and support student growth and development. Offices included in the division are: Office of Career Services and International Programs, Conference Services; Clinical Counseling Services; Disability Services; Dining Services; Student Activities; Multicultural Support Services; Commuter Student Support Services; Student Recreation; University Housing; and the Welcome Center (campus switchboard). The Office of the Dean of Students serves as the central resource for activities coordinated by the Division of Student Affairs. Events, programs, and services provided through these offices are designed to enhance student involvement and student leadership development.

DUPLICATING FACILITIES

There are coin-pay photocopying machines in the library and the Architecture Building. The machine in the University Technology and Learning Center requires a debit card, which can be purchased in the University Technology and Learning Center.

FIELD HOUSE/RECREATION

The Don Ridler Field House includes a gymnasium, weight and conditioning rooms, running track (1/11th mile), four racquetball/wallyball courts, and men's and women's locker rooms with showers and saunas.

Field House Hours

September – May

Monday	6:30 a.m. – 10 p.m.
Tuesday	8 a.m. – 10 p.m.
Wednesday	6:30 a.m. – 10 p.m.
Thursday	8 a.m. – 10 p.m.
Friday	6:30 a.m. – 9 p.m.
Saturday	9 a.m. – 5 p.m.
Sunday	Noon – 5 p.m.

June – August

Monday	6:30 a.m. – 6:30 p.m.
Tuesday	8 a.m. – 9 p.m.
Wednesday	6:30 a.m. – 6:30 p.m.
Thursday	8 a.m. – 9 p.m.
Friday	9 a.m. – 6:30 p.m.
Saturday	9 a.m. – 1 p.m.
Sunday	closed

INTERNATIONAL STUDENTS

International students may receive assistance from the Office of Career Services and International Programs, located in C404, Taubman Student Services Center.

LIBRARY

The Lawrence Tech library, located on the first level of the Buell Management Building, houses a broad selection of books, periodicals, electronic books and periodicals, Internet database search systems, and microforms selected to enhance the curriculum areas of the University. The library boasts an attractive garden area providing year-round greenery.

The staff of professional librarians, on duty during all scheduled hours, is skilled in locating information at Lawrence Tech and at numerous other institutions and provides individualized and group instruction on how to use the library efficiently.

Students have full access to the stacks for browsing and independent research and may request reference assistance from a librarian. An online library information system is accessible via *my.ltu.edu*. Most of the information on the library's home page is selected to serve the needs of the university curriculum and is not available on the regular Internet. When it is desirable to explore collections elsewhere, the library has agreements with many local and out-state academic and public libraries for direct borrowing privileges; in some cases, materials can be borrowed through a special arrangement, such as MichiCard or Infopass. As an alternative, library staff can obtain books and articles from libraries across the nation through a sophisticated interlibrary loan program.

Among its unique resources, the library houses the handsome and self-contained 3,000-volume personal and professional library of the late renowned architect Albert Kahn and has a complete collection of Society of Automotive Engineers papers since 1965. Collection strengths include engineering, architecture, management, and technology. The

library also hosts standard and color copiers, a campus printer, a scanner, and several network PCs.

MOTOR VEHICLES AND PARKING

All students may have motor vehicles on campus. Ample paved, lighted parking is provided free for students, faculty, staff, and visitors. Each student, faculty, or staff vehicle must display a current Lawrence Tech parking permit, which is available from the Taubman Student Services Center or the Department of Campus Safety. Lawrence Tech campus safety officers are authorized to levy fines on tickets issued for improper driving or parking. Campus motor vehicle parking and traffic regulations appear in the *Student Handbook*. The University is not liable for accidents, damage, or theft.

OPEN DOOR POLICY

The president's door is always open to students. Usually after consultation with instructors, department chairs, college deans, the dean of students, the provost, or other responsible administrative offices, students will find that any concerns will be satisfactorily addressed. If not, students may contact the president's executive assistant, who will prepare a briefing and arrange a convenient appointment between the student and the president.

POSTAL AND PACKAGE SERVICES

Mailboxes for outgoing U.S. mail are located in the lobbies of the Engineering, Buell Management, and Science buildings and at the Information Desks at both residence halls. All mail and packages are delivered to the Information Desks, where stamps may be purchased.

United Parcel Service (UPS) has an outbound package kiosk located outside the Buell Management Building on the north (C Lot) side of the building (atrium level).

SAFETY AND SECURITY

A safety team patrols Lawrence Tech 24 hours a day. But because no metropolitan area is immune from criminal activity, all students should take an active role in assuring personal safety. Report suspicious persons or activities immediately to the Department of Campus Safety (available 24 hours a day) by dialing ext. 3945 (or 248.204.3945). For emergencies, dial *911 (Star-9-1-1) to be connected to Campus Safety, which will contact the appropriate emergency service. From campus pay phones, dial 911 for municipal police, fire, or medical emergencies.

Lawrence Technological University, in full compliance with the Federal Crime Awareness and Campus Security Act of 1990, makes security information available to Lawrence Tech's students, faculty, and staff, as well as applicants for admission, newly hired employees, and the public. Statistics on campus crime may be examined at the Department of Campus Safety. Campus safety and security statistics for the prior academic year are available at ltu.edu/campus_safety.

STUDENT LOUNGES

Student lounges are located in the fireplace area of the Engineering Building; the lower level of the Architecture Building; the foyer of the Science Building; Room S202 of the Science Building (the Commuter Student Lounge); and the atrium of the Buell Management Building.

Retrospective

“All the worthwhile and precious things in life are only obtained through continuous and exacting effort, and their worth is in direct proportion to the effort put forth for their attainment.”

**Russell E. Lawrence
1889–1934**

It was a firm belief in the future that motivated Russell E. Lawrence to found a university in 1932 – in the midst of the economic chaos of the Great Depression. While less farsighted individuals made predictions of gloom, Russell Lawrence and his brother, E. George Lawrence (who led Lawrence Tech during its formative years from 1934 to 1964) turned a dream of preparing students for leadership in the new technical era into reality.

For 75 years, Lawrence Tech has continued to prosper and accelerate its growth, hone its educational philosophy of theory and practice, build important community and professional alliances, and forge partnerships with the firms, organizations, and industries who hire Lawrence Tech alumni.

Wayne H. Buell, who served as president from 1964 to 1977 and as chair of the board and chief executive officer until 1981, worked to build a firm foundation for the University’s early emergence as a technological leader. He first advanced the notion that Lawrence Tech was a private university serving a public purpose.

Several new buildings, the addition of graduate degrees, and the massive growth of computer facilities marked the presidency of Richard E. Marburger, who served as president, 1977–93, and also as chair of the board of trustees and chief executive officer, 1981–93.

Charles M. Chambers served as president 1993–2006 and chancellor in 2006. During his presidency, he oversaw significant enhancement of the University’s international reputation as a distinguished center of technological education and research. A Strategic Plan and Campus Master Plan were adopted to guide the University. Other achievements include: construction of the University Technology and Learning Center, University Housing-North, the A. Alfred Taubman Student Services Center, the campus quadrangle, and the Center for Innovative Materials Research; establishment of a Faculty Senate; conversion of the computer system to a client server model with full Internet2 connectivity and online library access; creation of Michigan’s first completely wireless laptop campus; and expanded bookstore, dining, and student activity facilities.

Lewis N. Walker was named interim president in February 2006, became president on July 1, and was inaugurated on November 2, 2006. He had previously served as provost, the University’s chief academic officer, and executive vice president. Walker is committed to developing the leadership skills of Lawrence Tech’s students and is working with faculty to add a leadership component to the curricula of all undergraduate programs. In addition, he is forging partnerships with universities worldwide that bring international students to campus and provide further opportunities for Lawrence Tech students to study abroad.

Lawrence Tech was founded on the principle that every person should have the opportunity for a college education. From the beginning, there were no restrictions on entering students relating to race, sex, color, creed, or national or ethnic origin – only the requirement that students qualify for admission and have the desire to succeed. Working students could earn a baccalaureate degree by attending evening programs, day programs, or a combination of the two – a feature unique in 1932 and still remarkable today.

The school was originally called Lawrence Institute of Technology. Its present name, Lawrence Technological University, was approved on January 1, 1989, by the State of Michigan, and more clearly describes Lawrence Tech's undergraduate and graduate mission.

Lawrence Tech was founded as a college of engineering with only a few hundred students and a handful of faculty. Today it offers over 60 programs in four colleges, with a total enrollment of nearly 5,000 students, and employs over 400 full- and part-time faculty. In terms of enrollment, Lawrence Tech is among Michigan's largest independent colleges.

In 1950, associate programs were added to Lawrence Tech's baccalaureate offerings. In 1952 the College of Management was created, having its origins in an earlier industrial engineering curriculum. Master's degree programs in management were launched in 1989. The College of Architecture and Design evolved in 1962 from the former architectural engineering department and in 1993 launched a Master of Architecture program. The College of Arts and Sciences was established in 1967. Master's degree programs in engineering were begun in 1990 and in Arts and Sciences in 1997. Doctoral programs were launched in 2002.

Concurrently, there has been an enormous expansion and improvement of facilities. The University's first campus was located in Highland Park, in a building leased from Henry Ford, adjacent to the huge manufacturing facility where he built the Model T and perfected the moving assembly line. As enrollment grew, the University acquired acreage in Southfield and in 1955 opened its first building on what had been a General Mills research farm. The campus has since expanded to over 100 acres and 12 major buildings, as well as the Frank Lloyd Wright-designed Affleck House in Bloomfield Hills, which was donated to the University in 1978.

In 1977, Lawrence Tech shed its "commuter" classification by opening the nine-story University Housing-South residence hall. The 1980s and 1990s were distinguished by the opening of the Wayne H. Buell Management Building and the Don Ridler Field House, numerous improvements to existing buildings, and a substantial increase in state-of-the-art laboratory and computer equipment. The University Technology and Learning Center opened in 2001, University Housing-North in 2002, and the A. Alfred Taubman Student Services Center and the Center for Innovative Materials Research (CIMR) in 2006. The Center for Innovative Materials Research was dedicated in 2008.

Admission to the University

The University has a selective admissions process – the objective of which is to identify men and women who have the highest potential for advancement in their chosen field of study. While the applicant’s academic record is a reliable measure for the prediction of academic success, the admissions decision is more complex than admitting students on the basis of a numerical formula. With this intent, Lawrence Tech considers, in addition to the applicant’s previous academic record, factors which demonstrate an aptitude for successful study.

For the admissions requirements for any of Lawrence Tech’s undergraduate degree programs, see the *Undergraduate Catalog*.

ADMISSION TO GRADUATE PROGRAMS

To initiate the application process, contact the Office of Admissions (800.CALL.LTU) to receive the Application for Graduate Admission, or visit the Lawrence Tech website: *ltu.edu*. In order to apply to any graduate program, students must submit the following to the Office of Admissions:

1. Completed Application for Graduate Admission;
2. Application fee;
3. Official transcripts of all completed college work;
4. Any additional material as required by the college offering the degree (i.e., GMAT/GRE scores, resume, letters of reference, portfolio, etc.). These requirements are described under the program of interest, later in this Catalog.

Application materials received will be carefully evaluated by the college’s Graduate Admissions Committee. To facilitate this process, the graduate applicant must provide all documentation at the time designated by each college. After the application has been reviewed by the committee, the student will be notified of the results by the Office of Admissions. The Office of Admissions will be the student’s point of contact from the application stage through the orientation program; the only exceptions are for certain events specified by the pertinent college.

In general, a cumulative undergraduate GPA of at least 3.0 is required for regular admission to the graduate programs. For students with less than a 3.0, the college’s Graduate Admissions Committee will carefully review the academic performance during the last two undergraduate years, letters of recommendation, and any work experience to determine acceptability to the graduate programs. For specific admission requirements, please see the program listings, which follow in this *Catalog*.

Applicants who do not meet all of the conditions for regular admission may be considered for conditional admission, provided they show exceptionally high aptitude. A conditional graduate student will be granted regular admission status only after maintaining the stipulated conditions as specified by the college’s Graduate Admissions Committee.

GRADUATE ADMISSIONS TESTS

Certain programs may require one of the standardized graduate tests for admission. The GMAT and GRE exams are prepared by the Educational Testing Service and are administered regularly throughout the United States and various foreign countries.

Arrangements to take the test should be made by requesting an application from:

Graduate Management
Admissions Test
Educational Testing Service
PO Box 6103
Princeton, NJ 08541

or

Graduate Record Exams
Educational Testing Service
PO Box 6000
Princeton, NJ 08541

TRANSFER STUDENTS

Policies pertaining to transfer students from other accredited graduate programs may be found later in this Catalog in the description of the specific program of interest. Each graduate program establishes its own policies on transfer credit. Students considering transferring to Lawrence Tech from other universities must follow the same admissions requirements as described above in Admission to Graduate Programs section. Any questions concerning credit evaluations must be resolved by the end of the first semester at Lawrence Tech.

Students may be required to submit additional evidence (e.g., course syllabi, catalog descriptions, portfolio, and tests/examinations) in order to justify transfer of credits. The college's Graduate Admissions Committee may require the applicant to demonstrate proficiency in the subject either through an interview or a written examination prepared by faculty members who have expertise in the subject/discipline. See your graduate program administrator for specific policies on transfer credit pertaining to your degree program.

GUEST STUDENTS

Graduate students may apply to Lawrence Tech as a guest student from another Michigan college or university. Guest students are allowed to enroll in specific courses for which all prerequisites have been met and for one semester only. Lawrence Tech students have enrollment preference over guest students.

Application as a guest student requires:

1. A completed Michigan Uniform Guest Application from the Michigan institution in which the student is enrolled, which specifies the courses to be taken and includes the approval and official seal of the academic advisor and/or registrar.
2. A copy of the college transcripts showing current GPA and prerequisites for the course(s) requested.

Students not currently enrolled in collegiate programs and those who attend institutions outside of Michigan must apply as a regular graduate student or as a non-degree special student.

NON-DEGREE SPECIAL STUDENTS

Graduate students who elect to take courses but who do not wish to pursue a degree program may enroll for one semester as a special student by submitting the following to the Office of Admissions:

1. A completed application for admission (see Non-Degree Special Student section of the graduate application) and the non-refundable fee;
2. Unofficial copies of transcripts from institutions attended.

Special students must meet the normal requirements for graduate admission. Lawrence Tech students have enrollment preference over special students.

A special student who wishes to obtain regular admission to a graduate program must make a regular application to that program and meet all admissions requirements.

Credit for courses taken while a special student may be applied toward the degree if approved by the college's Graduate Admissions Committee as part of the admissions process. When courses taken as a special student are applied toward a degree, the cumulative GPA will be computed from all graduate courses taken at Lawrence Tech.

INTERNATIONAL STUDENT ADMISSION REQUIREMENTS

International students must have above average grades in their post-secondary academic course work. International students applying for graduate programs must meet all admissions requirements. In addition, the following items must be submitted to the Office of Admissions no later than 60 days before the start of the desired semester of enrollment:

1. Completed application for admission signed by the student and non-refundable fee in U.S. currency;
2. Certified true copies of original academic transcripts;
3. Evidence of English proficiency;
4. An Affidavit of Support (for F-1 visa holders);
5. An F-1 transfer clearance form (for F-1 students transferring from a U.S. college or university).

TRANSFERS WITHIN THE UNIVERSITY

Students wishing to transfer to another college within the University (example: architecture to engineering) must apply to that program and meet all regular admissions requirements (see Admission to Graduate Programs section).

CHANGING MAJORS WITHIN A COLLEGE

Currently enrolled students desiring to change majors within their college (example: Master of Business Administration to Master of Science in Operations Management) do not need to reapply for admission. Students should contact the Graduate Program Administrator of their college and complete the appropriate change of curriculum form. In some cases, administrative paperwork may be required through the Office of the Registrar. Evaluation of credits into the newly desired program will be determined by the college's Graduate Admissions Committee.

INTERRUPTION OF STUDIES

Students who do not enroll for classes within three calendar years must reapply for admission. Readmission is not automatic; admission policies and academic programs in place at the time of readmission will apply. Students returning less than three calendar years from their previous enrollment may register in their original program without readmission. However, returning students who wish to change colleges or who have transfer credit from other institutions must reapply as a transfer student and will be subject to the curricula and requirements of the chosen program upon their return.

ADMISSIONS ADVISING AND TOURS

The Office of Admissions is open year-round (except holidays). Admissions counselors are available on a walk-in basis on weekdays. Students are encouraged to call the Office of Admissions at 800.CALL.LTU if they have any questions, if they require information, or if they would like to schedule a tour of the campus.

NON-DISCRIMINATORY POLICY

Lawrence Technological University adheres and conforms to all federal, state, and local civil rights regulations, statutes and ordinances. No person, student, faculty, or staff member will knowingly be discriminated against relative to the above statutes. Direct inquiries regarding non-discrimination policies to: Office of the Dean of Students, 21000 West Ten Mile Road, Southfield, MI 48075-1058, 248.204.4100.

Tuition and Fees

Lawrence Technological University sets tuition rates with the one goal of providing students with the best possible learning experience. The emphasis is on quality. Concurrently, the University has a long tradition of prudent management that has allowed it to contain costs and provide students with extraordinary value for their tuition investment, but never at the expense of Lawrence Tech's primary emphasis.

Tuition at Lawrence Technological University is used to cover many of the costs associated with a student's learning experience. Remaining expenses are funded through support from the University's alumni and friends, including gifts from individuals, corporations, and foundations.

Tuition and fees are normally established on an annual basis. However, the University reserves the right to make changes in these charges or to initiate or delete charges without notice. The schedule of current tuition and fees is published separately from this Catalog and is available from Enrollment Services or Business Services.

PAYMENT OF TUITION AND FEES

Tuition and fees are due by the designated deadlines each semester. The following payment options are available to students:

1. Payment plan of two monthly installments (designated deadlines).
2. Enrollment in the Tuition Management Systems (TMS).
3. Complete a Billing Authorization form (tuition voucher) when the student's employer is to be invoiced by the University;
4. Request clearance from the Office of Enrollment Services based on estimated eligibility for financial aid. The student will be fully responsible for any charges that are not covered by financial aid. The options stated above are available only when all prior balances are paid in full.

Monthly late charges will be assessed on all accounts with past due balances. Transcripts, diplomas, and/or permission to register will not be issued if an outstanding balance appears on a student's account.

METHOD OF PAYMENT

Students can make payments on their accounts using any of the following methods:

1. At the DTE One-Stop Center for Enrollment Services, by cash, check, money order, or credit card;
2. By mailing a check, money order, or the appropriate credit card information;
3. By faxing or phoning the appropriate credit card information to the cashier's office;
4. Posting the payment to a credit card via BannerWeb at *my.ltu.edu*.

COSTS FOR WITHDRAWAL

Costs for withdrawal are established as stipulated by federal regulations. The date when credit for withdrawal will be received can be obtained from Enrollment Services.

A 100 percent tuition refund will be granted for all withdrawals completed within the drop/add period. Official drop/add period dates for each semester are available on BannerWeb at *my.ltu.edu*. Registration fees, student activity fees, and course fees are non-refundable and are not included in the withdrawal credit calculation. Balances remaining after the adjustment for dropped classes must be paid based upon the University policy for payment of tuition and fees. Credit balances will be refunded to the original payment source.

The semester begins on the first day of classes as listed in the University catalogs and the academic calendar, which is published on the Lawrence Tech website, *ltu.edu*.

Date of withdrawal is the date the student's drop form is validated by Enrollment Services, the postmark date of the letter of withdrawal, or the date the student completes the withdrawal on BannerWeb at *my.ltu.edu*.

STUDENT TUITION APPEAL PROCESS

Students who wish to receive an exception to University policy and drop classes after the tuition refund deadline and receive a refund of any type, or wish to have the late registration fee or the late transaction fee waived, should follow this process:

Within 30 days of the last class meeting of the semester, complete the Tuition and Fee Appeal Form (available at ltu.edu/registrars_office/forms_to_print.index.asp) and submit a letter to Enrollment Services explaining the request and the rationale for the request. All supporting documentation should be submitted at this time (i.e., medical documentation).

The Office of the Registrar will prepare a packet of information that includes the student's schedule for the current semester, the tuition statement for the current and previous semesters, the list of courses and grades for the student and the financial aid status for the student.

The Appeals Committee (comprised of the registrar, director of admissions, supervisor of student accounting, dean of students, director of the Computer Help Desk, director of financial aid, and the student services center coordinator) reviews each student request and packet of information and makes a determination. The committee may also contact the student's instructor(s) to inquire as to attendance record and current grade in the course. The registrar then sends a letter to the student with the decision.

Students should be aware that if an exception is made, the amount of their financial aid may be impacted and they may owe the University money in some circumstances.

It is important to note that exceptions to University policy are made only in rare circumstances, such as a debilitating illness. Requests made because of difficult work schedules or class schedules will not be considered.

Financial Aid

GRADUATE PROGRAMS

Helping graduate students with their financial planning is a function of the Office of Financial Aid, which is part of Enrollment Services, located in C304 of the Taubman Student Services Center. Approximately 70 percent of the University's students receive some form of financial assistance from various private, state, and federal programs. These sources provide a broad array of financial aid, including scholarships, grants, loans, work-study, and employer-sponsored tuition reimbursement.

STATE TUITION GRANTS FOR MICHIGAN RESIDENTS

Lawrence Tech students in need of financial aid have the opportunity for assistance through the State of Michigan. Lawrence Tech students may receive outright grants of \$100 to \$2,750 toward yearly tuition, depending upon need, course load, and the availability of funds. Graduate students are eligible for four semesters of Michigan Tuition Grant payments.

Requirements

To qualify for a Michigan Tuition Grant, a graduate applicant must be a U.S. citizen or an eligible non-citizen of the United States and must have been a continuous Michigan resident since July 1 (of previous year), and must be at least a half-time student.

How to Apply

Students should complete the Free Application for Federal Student Aid (FAFSA) by carefully reading all of the instructions. This process can be completed online at *fafsa.ed.gov* or by requesting a paper version of the FAFSA from the Office of Financial Aid. This award will be prorated down for enrollment of less than 12 credit hours. The State of Michigan will send you a letter to confirm your eligibility. If you did not list Lawrence Tech as your first choice when you filled out the FAFSA, you will need to contact the state to notify them that you will be attending Lawrence Technological University (school code: 002279).

Deadlines

The deadline for the fall semester is March 21. This deadline may be extended depending on the availability of state funding. Even if you miss the deadline, it is highly recommended that you apply so the Office of Financial Aid can review your eligibility and the availability of funds.

STUDENT LOANS

Federal Subsidized Stafford Loan Program

Graduate students may borrow up to a maximum of \$8,500 per year based on full-time enrollment (six credit hours). Loan eligibility is evaluated each semester and subject to change due to changes in enrollment status. Students must be enrolled at least half-time (three credit hours) in an eligible degree program at Lawrence Tech to be eligible for this

loan. The federal government pays the interest on this loan during the grace and deferment periods (until six months after graduation, or falling below half-time status).

Federal Unsubsidized Stafford Loan Program

Graduate students may borrow up to a maximum of \$18,500 per year (including Subsidized Stafford Loans) based on full-time enrollment (six credit hours). Loan eligibility is evaluated each semester and subject to change due to changes in enrollment status. Students must be enrolled at least half-time (three credit hours) in an eligible degree program at Lawrence Tech to be eligible for this loan. Need is not a factor for this loan and the student is responsible for paying interest on the loan during the grace and deferment periods. The federal government does not pay the interest during the grace and deferment periods.

Alternative Loans

In addition to the Stafford loans, graduate students have access to a variety of alternative loans. The application process and terms for alternative loans vary by program and credit worthiness. Most students can receive funding regardless of financial need.

GRADUATE WORK-STUDY PROGRAMS

Graduate students meeting the eligibility criteria for work-study may be awarded funds from either the federal or state government. Students must be enrolled at least half-time (three credit hours) in an eligible degree program at Lawrence Tech to be eligible for work-study. Once notified of eligibility, students should contact Career Services for a list of potential employers. Once a work-study position is obtained, the student works and receives paychecks through the University payroll system. Work-study provides the opportunity for students to receive financial aid funds through employment opportunities on and off campus. Students must meet citizenship and residency requirements for each program.

JOB PLACEMENT SERVICE

The Office of Career Services and International Programs maintains a list of available part-time and full-time jobs with area businesses and industries. Career opportunities, on-campus student employment, career fairs, and on-campus interviews are posted on MonsterTrak.com

ADDITIONAL FINANCIAL AID INFORMATION

Application Procedures

Financial aid eligibility at Lawrence Tech is determined without regard to an applicant's race, sex, color, religion, creed, national or ethnic origin, age, marital status, or disability. The financial aid application procedure for both new and returning students interested in state or federal programs is as follows:

- Students are encouraged to use the office's counseling services even if they are not receiving aid.

- Visit the webpage ltu.edu/financial_aid for a variety of financial aid information and a link to the Free Application for Federal Student Aid (FAFSA). Students should complete the FAFSA by carefully reading all of the instructions. This process can be completed online at fafsa.ed.gov or by requesting a paper version of the FAFSA from Enrollment Services.
- Complete the FAFSA and provide all requested information and documents to Enrollment Services in a timely manner. The priority deadline for applying for financial aid is May 1. All applications received after this date will be processed although considered late.
- Processing usually takes four to eight weeks, depending on the time of year, and all awards are subject to the availability of funds.
- Instructions will be provided with the award notice for accepting the financial aid offer along with additional criteria required for delivery of funds (i.e., promissory notes, enrollment status, etc.).

Basis for Awards

Awards for most programs are made on the basis of financial need. The formula used to determine need-based aid eligibility is Cost of Attendance – Expected Family Contribution (EFC) = Financial Need. EFC is the estimated amount you are able to pay toward your education based on your income, assets, etc. The types and amounts of aid students receive are determined by a combination of financial need, federal and state award maximums, and funds available. Lawrence Tech's financial aid services attempts to distribute funds equitably among all eligible applicants. Students must enroll at least half-time to be eligible for Stafford Loans and Work-Study.

Satisfactory Academic Progress (SAP)

All students receiving financial aid are required to maintain satisfactory academic progress. Graduate students must maintain a minimum GPA of at least 2.75 to remain eligible for financial aid. Students are also required to make progress toward completing degree requirements. Students who withdraw from one-third (1/3) of the courses in which they have enrolled during the year (two semesters including summer school) do not meet SAP.

Contact Enrollment Services for information concerning the appeal process when SAP is not met.

Other Eligibility Criteria

- Students must be U.S. citizens or eligible non-U.S. citizens as defined by the U.S. Department of Education to qualify for all programs. Federal regulations and University policy severely limit the types of financial assistance for international students.
- Disbursement of financial aid funds usually takes place after enrollment verification for each semester. You must be enrolled in an eligible degree program for each fund awarded and most funds require at least half-time enrollment status. If you are not enrolled properly, your award is subject to change.
- Students who have defaulted on student loans, owe a refund on a grant, or owe any college tuition will not be eligible for any financial aid until the obligation is fulfilled and monies paid back to the proper institution.

- Lawrence Tech reserves the right to request from its students the following documents: Federal IRS 1040, 1040A, 1040EZ, or non-filing income tax information for the entire family, divorce papers for separated or divorced family members, as well as any required financial statements for verification of financial information. Students refusing to provide this information may be denied financial aid.
- Guest students are not eligible for financial aid.
- Students who audit classes cannot receive financial aid for the audited classes.
- Dropping a class or classes may have an adverse effect on financial aid eligibility. Financial aid will be adjusted accordingly depending on enrollment status as described above. Future eligibility is contingent on Satisfactory Academic Progress as described above.
- If you withdraw, or are asked to withdraw, from the University, you must immediately inform Enrollment Services. You must also terminate any work-study employment. If you have received a Federal Stafford Loan, you should contact your lender and arrange for an exit interview with the Lawrence Tech Office of Financial Aid. Your eligibility for financial aid will be determined, or recalculated, by the use of federally mandated procedures which may affect the aid already applied toward your account or previously refunded to you. Depending on when the withdrawal occurs, you may be required to repay all or part of the aid received. Students planning to withdraw from the University should contact Enrollment Services to discuss any effect on their financial aid.

FEDERAL BENEFITS FOR VETERANS

The Veterans Administration provides a wide range of benefits to veterans, some reservists, and active duty personnel. Contact the Veterans Administration with questions concerning eligibility. The amount of monthly allowance for Lawrence Tech veterans is based on the number of credit hours, the number of dependents, and the specific program qualifications.

All veterans receiving G.I. benefits are expected to maintain satisfactory academic progress. Veterans Administration regulations permit only a two-semester probation period unless there are mitigating circumstances, as determined by the Veterans Administration.

BENEFITS FOR MICHIGAN NATIONAL GUARD PARTICIPANTS

Members of the Michigan Air and Army National Guard (MIANG/MIARNG) may be eligible to receive a grant from Lawrence Tech for up to 45 percent of base tuition and fees for full-time students listed in the current edition of *College Costs and Financial Aid Book*, published by the College Board. The grant will increase annually, as necessary, to remain at the 45 percent range of base tuition and fees as long as the student remains enrolled at Lawrence Tech. Grants for part-time students are prorated. MIANG and MIARNG members, including both prior and non-prior service members, will be awarded the grant based on the following eligibility criteria:

- Member is certified to be in good standing in the MIANG or MIARNG.

- Member is admitted to a graduate degree-granting program at Lawrence Tech.
- Member meets Lawrence Tech's Michigan residency requirements, or is granted a waiver by the University.
- Member maintains satisfactory academic progress as determined by Lawrence Tech.
- Member is responsible for the cost of tuition for courses that are repeated and the Lawrence Tech grant will not apply to the number of credits for the repeated course(s).

Procedures:

- A. Members of the MIANG/MIARNG will apply for admission to a degree-granting program at Lawrence Tech.
- B. Upon approval for admission, member will complete and forward the Lawrence Tech/MIANG/MIARNG Grant Application to his/her MIANG or MIARNG unit representative.
- C. The unit representative will verify that the member is in good standing and will forward the application to the appropriate Education Services Office, MIANG or MIARNG, at Headquarters, Michigan National Guard, 2500 S. Washington Avenue, Lansing, MI, 48913-5101.
- D. The Michigan Army or Air National Guard Education Services Officer will in turn forward the application to Lawrence Tech's Office of Financial Aid.
- E. Upon receipt of the completed and verified Lawrence Tech/MIANG/MIARNG Grant Application, the Lawrence Tech's Office of Financial Aid will credit the grant amount toward the member's account.

Academic Regulations

The policies and procedures described in this *Graduate Catalog* determine the academic status of graduate students enrolled in the University. Exceptions to these policies and procedures may be considered only upon a written request to the Office of the Provost. Lawrence Tech reserves the right to update these policies and procedures as necessary. Updated policies and procedures are available online through the University's website, ltu.edu. In addition, students will be notified of the changes via their University email account and/or Blackboard. For policies pertaining to undergraduate students, see the *Undergraduate Catalog*.

CLASSIFICATION OF STUDENTS

Classification as a part-time or full-time student is based upon the weekly academic load that the student carries. Graduate students are considered full-time when enrolled for six or more credit hours.

CREDIT HOUR

The University converted from a quarter credit system to a semester system, effective in the fall of 1994. Work completed prior to August 1994 is recorded in standard quarter hours. Work completed after August 1994 is recorded in semester hours.

GRADUATE GRADING SYSTEM

A record of grade points is kept in the student's permanent record and used to determine his/her overall scholastic average. The following grades are computed in the grade point average:

A	4.0 grade points per credit hour
A-	3.7 grade points per credit hour
B+	3.3 grade points per credit hour
B	3.0 grade points per credit hour
B-	2.7 grade points per credit hour
C+	2.3 grade points per credit hour
C	2.0 grade points per credit hour
C-	1.7 grade points per credit hour
F	0.0 grade points per credit hour
WF	0.0 grade points per credit hour (failure due to non-attendance)

(Grades of D, D+, and D- are not awarded in graduate programs.)

The following grades are not computed in the grade point average:

W	Withdrawal
X	Audit
CR	Credit
NC	No Credit
I	Incomplete
NR	No Report
ZZ	Transfer Course in Progress
IP	In Progress (awarded to dissertation course)

RECOMPUTATION OF GRADE POINT AVERAGE

Graduate students in the College of Architecture and Design, College of Arts and Sciences, and College of Engineering are not eligible for grade point average recalculation. Graduate students in the College of Management may repeat only one course with a failing grade, one time during the course of their degree program.

INCOMPLETE

A grade of “I” is given only under extraordinary circumstances for course work that has been of satisfactory quality and, in the judgment of the instructor and the instructor’s dean, adequate to justify a reasonable extension of time. It is assigned only in cases in which the student has completed satisfactorily the major portion of the course requirements. Students receiving an “I” may not attend the class during a succeeding semester, unless they register for the class. If they register for the course a second time, tuition must be paid for both the original course and the second course. Instructors must change an “I” to a grade other than “W” no later than one (1) calendar year following the end of the semester or earlier, as determined by the agreement between the student and the instructor.

GRADE CHANGES

The electronic entry of grades submitted by instructors at the end of each semester is the official record of grades. Grade changes, when necessary, are done by the instructor with approval of the department chairman and dean. The University registrar may determine that the provost’s approval is also required in exceptional or unusual circumstances. Any disputes concerning grades must be resolved within one (1) semester after the course was completed. Failure to receive grades by mail or view them electronically does not exempt students from the one-semester limitation on grade changes.

DISPUTE OF GRADES

Students who wish to dispute their grades have one (1) semester to address the issue. The appropriate procedure for disputing grades, along with any other aspect of a course, is as follows: The student must first speak with the instructor of the course; if the resolution is not what the student hopes to achieve, the next course of action is to speak with the department chairperson. If the outcome from addressing the issue with the department chair is not what the student hopes to achieve, the student should then address the issue

with the dean of the college. If the resolution is not what the student hopes to achieve, the last and **FINAL** course of action is to speak with the provost. The ruling of the provost is **FINAL** and not further disputable by the student.

AUDITING CLASSES

Anyone wishing to audit a course must submit an audit request form along with the regular registration form. These forms are available in Enrollment Services. Starting with the first day of classes, a student may not change enrollment status from audit to credit or from credit to audit. Full tuition will be charged and the tuition credit policy applies if the student withdraws.

WITHDRAWAL FROM CLASSES

When intending to drop a course or courses or withdraw from courses, it is the student's responsibility to notify Enrollment Services, in writing or by dropping courses online through BannerWeb at *my.ltu.edu*. Drop/Add forms can be obtained from Enrollment Service. The date of the drop or withdrawal will be the date that Enrollment Services receives the completed Drop/Add form from the student or the date that the student drops the course(s) on BannerWeb.

Students who are unable to drop or withdraw from courses in person or through BannerWeb may do so by mailing or faxing a written notice that contains their student ID number and signature. To protect a student's right to privacy, drops and withdrawals may not be conducted by telephone or email.

Within certain time limits, tuition adjustments may be made to the student's financial account. Be aware that there are times when students receive no tuition credit/refund for dropped courses. Official Drop/Add dates for each semester are available online on BannerWeb at *my.ltu.edu*. It is the student's responsibility to know these dates and adhere to them.

It is important to note that exceptions to University policy are made only in rare circumstances, such as a debilitating illness. Requests made because of difficult work schedules or class schedules will not be considered.

GRADES FOR COURSES DROPPED

Students who drop a course during the designated Add/Drop period, typically the first two weeks of classes during the fall or spring semester will receive a "Drop" on their Registration Form and no grade will appear on their transcript.

Students who withdraw from a course before the 13th week of the fall or spring semester but after the first two weeks of classes will receive a grade of "W."

The last day to withdraw from the summer semester and short courses within the regular fall and spring semester is adjusted for the shorter time period as follows:

Class Duration Period	Last Day to Withdraw
Up to one week	3 days
Up to two weeks	1 week
Up to three weeks	2 weeks
Up to four weeks	3 weeks
Up to five weeks	4 weeks
Up to six weeks	5 weeks
Up to seven weeks	6 weeks
Up to eight weeks	6 weeks
Up to nine weeks	7 weeks
Up to ten weeks	8 weeks
Up to 11 weeks	9 weeks
Up to 12 weeks	10 weeks
Up to 13 weeks	11 weeks
Up to 14 weeks	12 weeks
Up to 15 weeks	13 weeks

After the last day to withdraw for any semester, students will not be permitted to withdraw from the course and will receive a grade as determined by the instructor (not a “W”).

All withdrawals or drops must be initiated by student action to assure that a “W” will appear on the master grade roster and subsequent transcripts. Faculty may not initiate withdrawal procedures nor may they submit a “W” on the electronic grade entry.

Drop and Withdrawal schedules for each semester may be obtained from Enrollment Services.

CHANGE OF CLASS SCHEDULE

Beginning the first day of classes, students may change their schedule by using the Drop/Add form or online via BannerWeb at *my.ltu.edu*.

The student is responsible for submitting Drop/Add forms directly to Enrollment Services and retaining the validated student copy. Classes must be added during the first two weeks of classes.

All changes to the student’s schedule are effective on the date conducted via BannerWeb or the date the Enrollment Services receives the form.

ATTENDANCE

Class attendance records of students are kept by all members of the faculty. The consequences of absenteeism will be determined by the instructor and will reflect his/her policy and judgment with respect to the effect of attendance on the student’s final grade.

For those students who miss a number of class meetings, the instructor will notify Enrollment Services. Enrollment Services will notify the student, in writing, that the

office has been advised that the student is not attending the course. The student will be asked to take an action (withdraw or contact the instructor or Enrollment Services). If a student fails to take action, the grade of “WF” is issued (meaning failure due to non-attendance).

PREREQUISITES

Students are responsible for successfully completing prerequisites, as listed in the course descriptions on BannerWeb at *my.ltu.edu*, for all courses in which they are registered. In those exceptional circumstances where a prerequisite may be waived, the student must seek approval from the department chair or dean of the college offering the course. The department chair will then enter an electronic override so that the student can register online.

If a prerequisite is waived, it is for one (1) semester only and does not exempt the student from taking the waived prerequisite in the future. Further, by seeking an override the student may not seek any type of grade or tuition appeal for the reason that they were not adequately prepared for the course.

Beginning the first day of classes, students may change their schedule using a Drop/Add form or online through BannerWeb at *my.ltu.edu*.

SCHEDULE OF CLASSES

Programs for regular students are outlined in this *Graduate Catalog*. Class schedules giving the particular days and the hours of the various classes are made available during registration for each semester online at *ltu.edu* and on BannerWeb at *my.ltu.edu*.

GRADE REPORTS

Grades are available at the end of each semester online through BannerWeb at *my.ltu.edu*. Report cards are mailed only upon student request to Enrollment Services.

STUDENT COMMUNICATIONS/STUDENT EMAIL

Lawrence Tech’s official method of communication with students is through the use of University email. Every student is issued a free email account. Students are expected to check their Lawrence Tech email account frequently and regularly for notices related to enrollment and financial matters, including important deadline and date information.

All undergraduate students are issued laptop computers that enable them to check their email. Graduate students can check their email through computer labs on campus. For assistance in accessing email off campus, contact the Edward Donley Computer Center, 248.204.3700.

The types of notices sent to students via Lawrence Tech email include:

- Emergency and campus safety notices
- Academic policy changes

- Registration dates and deadlines
- Laptop pickup and return dates and deadlines
- Financial aid dates and deadlines
- Processes and dates for graduation
- Updates on student financial account

Notices regarding student and University activities (social events, career fairs, speakers, etc.) are posted on Blackboard at *my.ltu.edu*.

All students are responsible for knowing about and complying with established policies and procedures. By frequently checking their Lawrence Tech email, students can stay up to date and in the know!

ONLINE STUDENT SERVICES

Lawrence Tech offers a variety of convenient online student services. Students can register for courses, view their academic records, request transcripts, make tuition payments, and conduct financial aid transactions through BannerWeb at *my.ltu.edu* from any location at any time.

Students may register online using their nine-digit student ID number and their PIN. Students who owe a balance from previous semesters may not register.

Students may also view and print both an official and unofficial copy of their student transcript, provided they do not have a hold that prohibits this function (such as owing the University money).

ACADEMIC PROBATION AND DISMISSAL POLICIES

Failure to Make Academic Progress

Any student whose overall grade point average falls below 3.0 at the end of a semester will be placed on academic probation. Students on academic probation are required to have an advisor's signature to register or to add or drop any class.

Academic Suspension and Dismissal

Any student whose cumulative grade point average remains below 3.0 at the end of three consecutive semesters of their enrollment or any student on academic probation who fails to meet the requirements of that probation will be suspended from the University for a minimum of one (1) calendar year. Veterans who do not meet the aforementioned requirements will lose their university certification for Veterans Administration benefits. Engineering and architecture students are also subject to the continuation requirements as described below.

The University will not accept transfer credit for courses taken at another college or university during a period of one (1) calendar year following suspension.

EXCESSIVE REPEATING AND WITHDRAWAL

Students are expected to successfully complete all the courses in which they are registered and are encouraged to plan their schedules to avoid overloads and conflicts which would interfere with that objective. Any student who engages in excessive withdrawal from classes or who repeats a required course more than once is subject to academic review and may be placed on academic probation regardless of the overall grade point average. Subsequent continuation of this behavior may result in suspension or dismissal. Students may register for the same course up to three times. After that point, the dean's signature is required to register. Circumstances demonstrably beyond a student's control will excuse him/her from this requirement, but poor scholarship will not.

ACADEMIC STANDING COMMITTEE/READMISSION

Graduate students who have been suspended from the University for academic reasons may, after one (1) calendar year, submit a written petition for readmission to the chair of the Academic Standing Committee. This petition should be received six (6) weeks before the first day of class of the semester in which the student wishes to return.

Evidence of planning, curriculum load, and work activities are taken into consideration when reviewing petitions for readmission. Petitions should be well organized, typed, and should include the student's current address, phone number, student ID number, curriculum, and reasons why the student had previous academic difficulty and why the student now feels he or she can be successful if readmitted.

The petition may include a letter from an employer attesting to competent work and maturity. An official transcript of courses taken at another institution must be submitted at the time the student applies for readmission. However, credit will not be allowed for any work taken at another institution for the period of one (1) calendar year following suspension. Once readmitted, a student is required to abide by the graduation requirements outlined in the *Graduate Catalog* at the time of readmission. A student's requirements for graduation may be subject to reevaluation.

Students wishing to reapply to a graduate or professional degree program after having been suspended must make a regular application for admission.

Students reapplying to the Master of Architecture program in the College of Architecture and Design must resubmit a portfolio of work completed in previous design courses, including any work they may have done in a professional capacity while away from the academic setting. The work submitted must be in accordance with admission guidelines.

Students who have been suspended and subsequently readmitted and who then fail to meet the conditions of their readmission will be dismissed from the University. Students dismissed from the University under these circumstances may not be readmitted.

ENROLLMENT AT OTHER INSTITUTIONS

Students enrolled at Lawrence Tech may not take courses at other colleges and universities after admission to Lawrence Tech and expect those credits to transfer without the prior written permission of the Credit Review Committee.

Students should complete the Guest Credit Approval form and submit this form to Enrollment Services at least one (1) month in advance of the start of the course. The Credit Review Committee meets every two (2) weeks and reviews each request individually. Following review, Enrollment Services will inform the student of the Committee's decision by letter.

Courses taken in violation of this policy will be denied transfer credit. For those courses approved, the student must receive at least a 3.0 in the course to have it transfer back to Lawrence Tech. It is the student's responsibility to have the official transcript sent to Enrollment Services at Lawrence Tech. Until the official transcript arrives, the credit will not be placed on the student's transcript.

In addition, only the course will transfer to Lawrence Tech, not the grade. Lastly, approved guest credit courses may not be transferred back to Lawrence Tech to be used in grade point average recomputation.

Transfer credit is generally not given for courses taken at other institutions after enrollment at Lawrence Tech, unless those courses cannot be completed at the University.

RECORDS (Transcripts)

A permanent record of all credits earned at or transferred to the University is maintained for each student in Registration Services, within Enrollment Services. These records are preserved indefinitely. All graduates are mailed a free copy of their academic record at Lawrence Tech as soon as possible after the degree is reflected on the record, providing financial obligations to Lawrence Tech have been settled by that date.

At all other times, a nominal charge is made for providing official copies of a student's record at Lawrence Tech. Copies of records (transcripts) will not be released without the student's authorization in writing. Transcripts will not be issued unless all financial obligations from prior terms have been settled.

ARCHITECTURAL DRAWINGS AND REPORTS

Architectural students are advised that all thesis reports, two- and three-dimensional drawings and models, as well as reports and other written studies submitted in satisfaction of any required or elective architectural courses become the property of the University and may be kept or returned at the sole discretion of the dean of the College of Architecture and Design. When such work is kept, arrangements will be made for the student to receive suitable photographic copies as a record of his or her design work. Whenever any student work is exhibited or published, the student will receive proper acknowledgement of his or her efforts.

INSPECTION OF RECORDS

Family Educational Rights and Privacy Act of 1974

At Lawrence Technological University the following information is currently considered directory information about a student: dates of attendance, major field of study, class level, degrees and awards received, anticipated date of receiving degree, and confirmation of enrollment (enrollment status).

In accordance with the provisions of the Family Educational Rights and Privacy Act (FERPA), this directory information can be released to the general public and may be listed in the campus directory, if one is published. Students may withhold this information from being released by completing the Student Request for Non-Disclosure form. By completing this form, students are requesting that information NOT be released to non-university personnel nor listed in the campus directory, if one is published, for one (1) year. This form remains valid and enforced during this period unless removed by the student. Please note that in compliance with federal regulations there are situations in which particular information may be released, upon presentation of official documents, to designated state, local, or government agencies.

Students should consider carefully the impact of their decision to request confidential status. This means that after submission of the form, requests for this information from non-university persons or organizations will be refused. Friends or relatives trying to reach a student will not be able to do so through the University; the student's name will not appear in the printed Commencement program; and information that the student is enrolled at Lawrence Tech will be suppressed. Thus, if loan companies, prospective employers, or family members, etc., inquire about the student, they will be informed that there is no record of the student's attendance here.

Lawrence Technological University will honor the student's request to withhold this information but cannot assume responsibility for contacting the student for subsequent permission to release the directory information. Regardless of the effect upon the student, Lawrence Technological University assumes no liability as a result of honoring a student's instructions that this information be withheld.

Once a student has designated a confidential classification, it will be removed after one (1) year. If a student wishes the classification removed prior to then, the student should submit a signed authorization requesting that it be removed. This authorization form is available in Enrollment Services.

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights are:

1. The right to inspect and review their education records within 45 days of the day the University receives a request for access. Students should submit to Registration Services written requests that identify the record(s) they wish to inspect. The registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by Enrollment Services, where the request was submitted, the registrar

shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of education records that the student believes are inaccurate or misleading. Students should write the University official responsible for the record, clearly identify the part of the record they want changed and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent, i.e., disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by the University in an administrative, supervisory, academic, or support staff position (including law enforcement unit and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
4. The right to file a complaint with the U.S. Department of Education, concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue SW
Washington, DC 20202-4605

Policies, Procedures, and Regulations

ACADEMIC HONOR CODE

Academic integrity and honesty are basic core values of Lawrence Technological University. In carrying out its academic mission, Lawrence Tech, like all universities, depends on the honesty and integrity of its faculty, staff, and students, and for this reason every member of the University community is charged with upholding the Academic Honor Code.

Actions that breach the code erode the trust of those who look to universities for honest evaluations of academic work arrived at through honest processes. Violations may also cause individual harm in that reports of performance made to post-graduate schools, professional societies, and employers would inaccurately represent a student's progress.

Lawrence Technological University is committed to creating an academic community that values both individual and collaborative efforts that promote learning and discovery. Such a community expects honesty and integrity in the work of all its members.

The Academic Honor Code speaks to the work of individual students within the community. It should not be construed as arguing against the important collaborations that also occur among students on campus. This document is intended to clarify the adjudication of issues regarding academic honesty and fair play for students. Portions of this document have been adapted from the 2002–03 University of North Carolina at Wilmington Academic Honor Code and the 2002–03 Binghamton University Academic Honesty Code.

A. Academic Integrity

Students, faculty, and staff are expected to follow established standards of academic integrity and honesty. Academic misconduct entails dishonesty or deception in fulfilling academic requirements and includes but is not limited to cheating, plagiarism, or the furnishing of false information to the University or a University affiliate in matters related to academics. An affiliate of the University is any person, organization, or company who works in conjunction with Lawrence Technological University for the purposes of assisting students in fulfilling their academic requirements. It is therefore this institution's stated policy that no form of dishonesty among its faculty or students will be tolerated. Although all members of the University community have an obligation to report occurrences of dishonesty, each individual is principally responsible for his or her own conduct.

B. Academic Dishonesty Offenses

Violation of any of the following standards subjects any student to disciplinary action:

- 1. Plagiarism** – The term “plagiarism” includes but is not limited to (a) the use, by paraphrase or direct quotation, of the published or unpublished work or creative and/or intellectual property in print, product, or digital media of another person without full and clear acknowledgment; (b) the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers, reports, or other academic

materials; or (c) the appropriating, buying, receiving as a gift, or obtaining by any other means another person's work and the unacknowledged submission or incorporation of it in one's own work. Plagiarism is unethical, since it deprives the true author of his/her rightful credit and then gives that credit to someone to whom it is not due. Examples include:

- Quoting, paraphrasing, or summarizing written material, even a few phrases, without acknowledgment.
- Failing to acknowledge the source of either a major idea or an ordering principle central to one's own paper.
- Relying on another person's data, evidence, or critical method without credit or permission.
- Submitting another person's work as one's own.
- Using unacknowledged research sources gathered by someone else.
- Copying portions or outcomes of two- or three-dimensional creative property of previously published work.
- Copying items from Internet websites without acknowledgment of the source.

2. Bribery – The term “bribery” includes the offering, giving, receiving, or soliciting of any consideration in order to obtain a grade or other treatment not otherwise earned by the student through his/her own academic performance.

3. Cheating – The term “cheating” includes but is not limited to (a) use of or giving to others any unauthorized assistance in taking quizzes or examinations; (b) dependence upon aids beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; (c) the acquisition, without permission, of tests or other academic material belonging to a member of the University faculty or staff; or (d) the unauthorized use of any electronic or mechanical device during any program, course, quiz, or examination or in connection with laboratory reports or other materials related to academic performance.

4. Misrepresentation – The term “misrepresentation” includes any act or omission undertaken with intent to deceive an instructor for academic advantage. Examples include:

- Using a computer program generated by another and handing it in as one's own work unless expressly allowed by the instructor.
- Lying to an instructor to improve one's grade.
- Lying or misrepresenting facts when confronted with an allegation of academic dishonesty.

5. Conspiracy – The term “conspiracy” means planning or acting with one or more persons to commit any form of academic dishonesty in order to gain academic advantage for oneself or another.

6. Fabrication – The term “fabrication” means the use of invented information or the falsification of research or other findings with the intent to deceive and thereby gain academic or professional advantage.

7. Multiple Submissions – The term “multiple submissions” means submitting substantial portions of the same work for credit more than once, unless there is prior explicit consent by the instructor(s) to whom the material is being or has been submitted.

8. Unauthorized Collaboration – The term “unauthorized collaboration” means collaborating on projects, papers, computer programs, lab reports, or other academic assignments where such collaboration has been prohibited by the instructor.

9. Sabotage – The term “sabotage” means deliberately impairing, destroying, damaging, or stealing another’s work or working material. Examples include:

- Destroying, stealing, or damaging another’s lab experiment, computer program, term paper, exam, or project.
- Removing uncharged library materials with the effect that others cannot use them.
- Defacing or damaging library materials with the effect that others cannot use them.
- Hoarding or displacing materials within the library with the effect that others have undue difficulty using them.
- Interfering with the operation of a computer system so as to have an adverse effect on the academic performance of others.

C. Jurisdiction

All students enrolled at Lawrence Technological University are subject to the Academic Honor Code.

D. Responsibility of the University Community

1. General Responsibility – It shall be the responsibility of every faculty member, student, administrator, and staff member of the University community to uphold and maintain the academic standards and integrity of Lawrence Technological University. Any member of the University community who has reasonable grounds to believe that an infraction of the Academic Honor Code has occurred has an obligation to report the alleged violation.

2. Student Responsibility – Each student shall abide by the Academic Honor Code at all times.

3. The Responsibility of Individual Instructors – Instructors are encouraged to make their classes aware of the Academic Honor Code during the first week of each term.

4. Responsibility of the University Administration – The Office of the Dean of Students is responsible for the publication and dissemination of the Academic Honor Code and any amendments or changes approved by the Deans Council with the recommendation of the Faculty Senate and the Faculty Councils of the colleges. All new University faculty, administrative staff, personnel, and students should be advised of the Academic Honor Code upon becoming members of the University community.

5. Responsibility of the Office of the Registrar and the Office of the Dean of Students – The Office of the Registrar and the Office of the Dean of Students shall receive and maintain comprehensive records of all matters relating to violations of the Academic

Honor Code. The Office of the Registrar will receive a copy of the decision letter completed by the dean of the college, to be included in the student's academic record.

E. Reporting and Adjudication Procedures

1. An infraction of the Academic Honor Code may be reported by any member of the University community who has knowledge of such infraction. The infraction should be reported to the instructor of the course in which it occurred, where applicable. Such a report should be made within five (5) class days from the time of discovery unless extenuating circumstances prevent reporting.
2. Any student charged with a violation under this code shall be presumed not responsible until it is proven that, more likely than not, the violation of the rule or regulation occurred.
3. Upon receiving a report of a violation or having reasonable evidence of a violation, the instructor in charge of the course or materials in question will inform the department chair or dean of the college in writing. The department chair or dean of the college will investigate the reported violation. The department chair or dean of the college will inform the student in writing of the reported violation and will request a written response from the student. If necessary, the department chair or dean of the college will conduct an interview with the student. The department chair or dean of the college will determine whether the student violated the Academic Honor Code.
 - a. While action on a complaint of violating the Academic Honor Code is pending, the status of the student shall not be altered except for reasons outlined in Section J of the *Student Code of Conduct*.
 - b. If the student is found in violation, the student will receive an F grade in the course. This grade will not be recomputed for GPA purposes. The department chair or dean of the college will notify the student in writing of the decision. A copy of the letter will be put in the student's academic record and disciplinary file.
 - c. A student found in second violation of the Academic Honor Code will be expelled from the University. See Article G for expulsion proceedings.
4. If no action is taken by the instructor, the reporting party may file a written report of the allegation of academic dishonesty with the department chair or dean of the college. The department chair or dean of the college will investigate the reported violation. The investigative process will be conducted according to the provisions in Section E-3 above.

F. Appeal Process

1. Where appropriate, a student may appeal a finding of academic dishonesty to the dean of the College in which the course is offered within seven (7) class days. The appeal shall be in writing.
2. An appeal shall be limited to review of the following:
 - a. To determine whether the student received fundamental fairness in the investigative and decision-making process.
 - b. To determine whether the facts in the case were sufficient to establish that a violation of the Academic Honor Code occurred.
 - c. To consider relevant and material new evidence.

G. Expulsion Proceedings

1. Expulsion proceedings will be initiated by the Dean of Students for students found in second violation of the Academic Honor Code. The student will be contacted by the Office of the Dean of Students for a meeting to explain the proceedings of expulsion.
2. Students being expelled will receive written notification from the Dean of Students indicating the sanction of expulsion and the process for appeal.
3. The sanction of expulsion may be appealed by the accused student to the provost within seven (7) school days of the decision. Such appeals shall be in writing and shall be delivered to the Dean of Students or designee.
4. Except as required to explain the basis of new information, an appeal shall be limited to a review of the documents and notes of the department chair or dean of the college and submission of information by the accused student and supporting documents for one or more of the following purposes:
 - a. To determine whether the student received fundamental fairness in the investigative and decision-making processes.
 - b. To determine whether the facts in the case were sufficient to establish that a violation of the Academic Honor Code occurred in both cases.
 - c. To consider relevant and material new evidence.
5. Following the appeal, the provost shall advise the accused student in writing of the determination of the appeal, and of the sanctions imposed, if any. A copy of the notification will be retained in the student's academic record and the student's disciplinary record.

Student Pledges

In adopting this Academic Honor Code, students of Lawrence Technological University recognize that academic honesty and integrity are fundamental values of the University community. The quality of a Lawrence Tech education is dependent upon the community acceptance and enforcement of the Academic Honor Code. Students who enroll at Lawrence Tech commit to holding themselves and their peers to the highest standard of academic integrity. An individual who becomes aware of a violation of the Academic Honor Code has an obligation to report this violation.

Members of the Lawrence Technological University community pledge to hold themselves and their peers to the highest standards of academic honesty and integrity.

Undergraduate Students – On all academic work submitted by undergraduate students at Lawrence Technological University, the following pledge is required: “I have neither given nor received unauthorized aid in completing this work, nor have I presented someone else’s work as my own.”

Graduate Students – All graduate students at Lawrence Technological University are required to sign the student pledge when they start graduate studies: “I pledge that on all academic work that I submit, I will neither give nor receive unauthorized aid, nor will I present another person’s work as my own.”

STUDENT CODE OF CONDUCT

Lawrence Technological University is an institution that encourages the intellectual and personal growth of its students as scholars and citizens. Linking theory and practice with advanced learning technologies, Lawrence Technological University's mission is to provide superior undergraduate, graduate, and lifelong learning for leadership, professional achievement, and civic excellence. In this pursuit, the University recognizes that the transmission of knowledge, the pursuit of truth, and the development of individuals require the free exchange of ideas, self-expression, and the challenging of beliefs and customs. Academic freedom is essential to the achievement of these purposes.

Honesty, integrity, and caring are essential qualities of an educational institution, and the concern for values and ethics is important to the whole educational experience. The *Student Code of Conduct* outlines the rights and responsibilities and expected levels of conduct of students in the University community. Fundamental to the achievement of community among the members of the University is the recognition by all such members that each shares a responsibility to observe University regulations. This obligation, which is an extension of the citizen's responsibility to observe the law of the land, is an essential corollary to participation in the academic rights afforded to members of the University.

A student voluntarily joins the Lawrence Technological University community and thereby assumes the obligation of abiding by the standards prescribed in the *Student Code of Conduct*. As such, students are required to engage in responsible social conduct that reflects credit upon the University community and to model good citizenship in any community. The University, through the Office of the Dean of Students, maintains the exclusive authority to impose sanctions for behaviors that violate the Student Code of Conduct.

All students enrolled at Lawrence Technological University have access to the *Student Code of Conduct*. Printed copies are available through the Office of the Dean of Students and the University Housing Office. The *Student Code of Conduct*, along with other helpful information, also may be accessed online at ltu.edu.

A. Definitions

1. The term "UNIVERSITY" means Lawrence Technological University.
2. The term "STUDENT" includes all persons taking courses at the University either full-time or part-time, pursuing undergraduate, graduate, or professional studies. Persons who withdraw after allegedly violating the Student Code, who are not officially enrolled for a particular term but who have a continuing relationship with the University or who have been notified of their acceptance for admission are considered "students," as are persons who are living in University residence halls, although not enrolled in this institution. This Student Code does apply at all locations of the University, including education centers in Wayne, Oakland, Macomb, and outlying counties in Michigan, Northern Michigan, and centers in other states and foreign countries.
3. The term "FACULTY MEMBER" means any person hired by the University to conduct classroom or teaching activities or who is otherwise considered by the University to be a member of its faculty.

4. The term “UNIVERSITY OFFICIAL” includes any person employed by the University performing assigned administrative or professional responsibilities.
5. The term “MEMBER OF THE UNIVERSITY COMMUNITY” includes any person who is a student, faculty member, University official, or any other person employed by the University. A person’s status in a particular situation shall be determined by the dean of students.
6. The term “UNIVERSITY PREMISES” includes all land, buildings, facilities, and other property in the possession of or owned, used, or controlled by the University, including adjacent streets and sidewalks.
7. The term “ORGANIZATION” means any number of persons who have complied with the formal requirements for University recognition.
8. The term “STUDENT DISCIPLINE COMMITTEE” means any person or persons authorized by the dean of students to determine whether a student has violated the Student Code and to recommend sanctions that may be imposed when a regulations violation has been committed.
9. The term “STUDENT CONDUCT OFFICER” means a University official authorized on a case-by-case basis by the dean of students to impose sanctions upon any student found to have violated the Student Code. The dean of students may, in certain circumstances, authorize a student conduct officer to serve simultaneously as a student conduct officer and the sole member or one of the members of the Student Discipline Committee. The dean of students may authorize the same student conduct officer to impose sanctions in all cases.
10. The term “DISCIPLINE APPEALS COMMITTEE” means any person or persons authorized by the dean of students to consider an appeal from a Student Discipline Committee’s determination as to whether a student has violated the Student Code.
11. The term “SHALL” is used in the imperative sense.
12. The term “MAY” is used in the permissive sense.
13. The term “POLICY” means the written regulations of the University as found in, but not limited to, the *Student Code*, the *Student Handbook*, the *Guidelines for University Living*, the University webpage and computer use policy, and *Undergraduate or Graduate Catalogs*.
14. “LEVEL I” violations of the Student Code are those for which the sanctions may be a warning, disciplinary probation, special restrictions or loss of privileges, fines, restitution, imposed reassignment of course section or housing assignment, or assignments of discretionary sanctions. Level I violations will generally be heard by a student conduct officer.
15. “LEVEL II” violations of the code are those for which the sanctions may be, in addition to those listed in Level I, suspension from University Housing and/or from the University, or expulsion from University Housing and/or from the University. Level II violations will generally be heard by the Student Discipline Committee.
16. The term “COMPLAINANT” means any person who submits a charge alleging that a student violated this Student Code. When a person believes that she/he has been a victim of another student’s misconduct, the student who believes she/he has been a victim will have the same rights under this Student Code as are provided to the complainant, even if another member of the University community submitted the charge itself.
17. The term “ACCUSED STUDENT” means any student accused of violating this Student Code.

B. Student Code Authority

1. The dean of students shall determine the composition of the Student Discipline Committee and Discipline Appeals Committee and determine which Student Discipline Committee, student conduct officer, and Discipline Appeals Committee shall be authorized to hear each matter.
2. The dean of students is that person designated by the university president to be responsible for the administration of the Student Code. The dean of students shall develop policies for the administration of the student conduct system and procedural rules for the conduct of Student Discipline Committee hearings that are not inconsistent with provisions of the Student Code.
3. Decisions made by the Student Discipline Committee and/or a student conduct officer designated by the dean of students shall be final, pending the normal appeal process.
4. The Student Discipline Committee may be designated as arbiter of disputes within the student community in cases that do not involve a violation of the Student Code. All parties must agree to arbitration and to be bound by the decision with no right of appeal.

C. Conduct – Rules and Regulations

Acts of academic dishonesty are regulated by procedures outlined in the Academic Honor Code. Any student found to have committed the following misconduct is subject to the disciplinary sanctions outlined in Section H:

1. Acts of dishonesty, including but not limited to the following: cheating, plagiarism, or other forms of academic dishonesty; furnishing false information to any University official, faculty member, or office; forgery; alteration, or misuse of any University document, record, or instrument of identification; helping or attempting to help another student commit an act of dishonesty; tampering with the election of any University-recognized student organization.
2. Disruption or obstruction of teaching, research, administration, disciplinary proceedings, or other University activities, including its public-service functions on or off campus or other authorized non-University activities, when the act occurs on University premises.
3. Physical abuse, verbal abuse, threats, intimidation, harassment, coercion, stalking, and hate crimes or acts that are racially motivated or due to one's sexual orientation, gender expression, and/or other conduct that threatens or endangers the health or safety of any person.
4. Attempted or actual theft of and/or damage to property of the University or property of a member of the University community or other personal or public property, on or off campus.
5. Hazing, defined as an act that endangers the mental or physical health or safety of a student, or which destroys or removes public or private property, for the purpose

- of initiation, admission into, affiliation with, or as a condition for continued membership in a group or organization. The express or implied consent of the victim will not be a defense. Apathy or acquiescence in the presence of hazing are not neutral acts; they are violations of this regulation.
6. Failure to comply with directions of University officials or law enforcement officers acting in performance of their duties and/or failure to identify oneself to these persons when requested to do so.
 7. Unauthorized possession, duplication, or use of keys to any University premises or unauthorized entry to or use of University premises.
 8. Violation of any University policy, rule, or regulation published in hard copy, posted on campus, or available electronically on the University website.
 9. Violation of federal, state, or local law on University premises or at University-sponsored or supervised activities.
 10. Use, possession, manufacturing, or distribution of marijuana, heroin, narcotics, or other controlled substances, except as expressly permitted by law; use or possession of drug paraphernalia.
 11. Use, possession, manufacturing, or distribution of alcoholic beverages, except as expressly permitted by the law and University regulations, or public intoxication. Alcoholic beverages may not, in any circumstances, be used by, possessed by, or distributed to any person under 21 years of age.
 12. Possession of firearms, explosives, any object that by its intended or actual use may be used to threaten or harm people or damage or destroy property, or other weapons or dangerous chemicals on University premises.
 13. Participating in an on-campus or off-campus demonstration, riot, or activity that disrupts the normal operations of the University and infringes on the rights of other members of the University community; leading or inciting others to disrupt scheduled and/or normal activities within any campus building or area; intentional obstruction that unreasonably interferes with freedom of movement, either pedestrian or vehicular, on campus.
 14. Obstruction of the free flow of pedestrian or vehicular traffic on University premises or at University-sponsored or supervised functions, or violation of any regulations outlined in the *Lawrence Tech Parking and Traffic Regulations* booklet.
 15. Conduct which is disorderly, lewd, or indecent; breach of the peace; or aiding, abetting, or procuring another person to breach the peace on University premises or at functions sponsored by, or participated in, by the University or members of the academic community. Disorderly conduct includes but is not limited to: any unauthorized use of electronic or other devices to make an audio or video record of any person while on University premises without his/her knowledge, or without his/her effective consent when such recording is likely to cause injury or distress.

This includes but is not limited to surreptitiously taking pictures of another person in a gym, locker room, or restroom.

16. Theft or other abuse of computer facilities and resources, including but not limited to unauthorized entry into a file to use, read, change, or delete the contents or for any other purpose; unauthorized transfer of a file; use of another individual's identification and password; use of computing facilities to interfere with the work of another student, faculty member, or University official; use of computing facilities to send obscene or abusive messages; use of computing facilities to interfere with normal operation of the University computing system; use of computing facilities and resources in violation of copyright laws; any violation of the University's Computing and Network Policy.
17. Tampering with any telecommunications service, including but not limited to: telephone, cable television, and/or voice mail; providing unauthorized service to another room, suite, or apartment by any means through unauthorized installation of wiring jacks or extensions.
18. Abuse of the Student Conduct System, including but not limited to: failure to obey the summons of the Student Discipline Committee, Discipline Appeals Committee, student conduct officer, or University official to appear for a meeting or hearing as part of the Student Conduct System; falsification, distortion, or misrepresentation of information before a Student Discipline Committee, Discipline Appeals Committee, or student conduct officer; disruption or interference in bad faith with the orderly conduct of a proceeding; attempting to discourage an individual's proper participation in, or use of, the Student Conduct System; attempting to discourage an individual's proper participation in, or use of, the Student Conduct System; attempting to influence the impartiality of a member of a Student Discipline Committee or Discipline Appeals Committee prior to, during, and/or after a student conduct proceeding; harassment (verbal or physical) and/or intimidation of a member of a Student Discipline Committee or Discipline Appeals Committee prior to, during, and/or after a student conduct proceeding; failure to comply with the sanction(s) imposed under the Student Code; influencing or attempting to influence another person to commit an abuse of the Student Conduct System.
19. Actions that endanger the student, the University or local community, or the academic process, or cause harm to self or others.

D. Jurisdiction of the Lawrence Technological University Student Code

The Lawrence Technological University Student Code shall apply to conduct that occurs on University premises, at University-sponsored activities, and to off-campus conduct that adversely affects the University community and/or the pursuit of its objectives. Each student shall be responsible for his/her conduct from the time of application for admission through the actual awarding of a degree, even though conduct may occur before classes begin or after classes end, as well as during the academic year and during periods between terms of actual enrollment (and even if their conduct is not discovered until after a degree

is awarded. The Student Code shall apply to a student's conduct even if the student withdraws from school while a disciplinary matter is pending. The dean of students shall decide whether the Student Code shall be applied to conduct occurring off campus, on a case-by-case basis, in his/her sole discretion.

E. Violation of Law and University Discipline

1. University disciplinary proceedings may be instituted against a student charged with conduct that potentially violates both the criminal law and this Student Code (that is, if both possible violations result from the same factual situation) without regard to the pendency of civil or criminal litigation in court or criminal arrest and prosecution. Proceedings under this Student Code may be carried out prior to, simultaneously with, or following civil or criminal proceedings off campus at the discretion of the dean of students. Determinations made or sanctions imposed under this Student Code shall not be subject to change because criminal charges arising out of the same facts that gave rise to violation of University rules or regulations were dismissed, reduced, or resolved in favor of or against the criminal law defendant.
2. When a student is charged by federal, state, or local authorities with a violation of law, the University will not request or agree to special consideration for that individual because of his or her status as a student. If the alleged offense is also being processed under the Student Code, the University may advise off-campus authorities of the existence of the Student Code and of how such matters are typically handled within the University community. The University will attempt to cooperate with law enforcement or other agencies in the enforcement of criminal law on campus and in the conditions imposed by criminal courts for the rehabilitation of student violators (provided that the conditions do not conflict with campus rules, regulations, or sanctions). Individual students and other members of the University community, acting in their personal capacities, remain free to interact with governmental representatives as they deem appropriate.
3. If a student is charged with an off-campus violation of federal, state, or local laws, but not with any other violation of this code, disciplinary action may be taken by the University and sanctions imposed for grave misconduct which demonstrates flagrant disregard for the University community. In such cases, no sanction may be imposed unless the student has been found guilty in a court of law or has declined to contest such charges, although not actually admitting guilt (e.g., "no contest" or "nolo contendere").

F. Student Code of Conduct Procedures

All suspected violations of the code will be reviewed in accordance with the procedures outlined below.

1. Disciplinary Correspondence. All disciplinary correspondence will be sent to the student's official mailing address as listed with the Office of the Registrar. The University reserves the right to use other reasonable means to notify students.
2. Filing Complaints

- a. Any member of the University community may make a complaint and/or referral or offer information concerning such complaint and/or referral to the Office of the dean of students. A complaint or referral made against a student or students alleging violation(s) of the *Student Code of Conduct* shall be directed to the dean of students for review. Any complaint should be prepared in writing on a University incident report form and should be submitted as soon as possible after the event takes place, preferably within 48 hours.
 - b. While action on a complaint of violating a University rule or regulation is pending, the status of the student shall not be altered except for reasons outlined in Section J.

- 3. **Presumption of Non-Violation**
 Any student charged with a violation under this code shall be presumed not responsible until it is proven that, more likely than not, the violation of the rule or regulation occurred.

- 4. **Preliminary Investigation**
 When the dean of students or designee receives information that a student has allegedly violated University rules, regulations, or local, state, or federal law, the dean or designee shall investigate the alleged violation and determine whether further action is necessary. After completing a preliminary investigation, the Dean or designee may:
 - a. Find no basis for the complaint and dismiss the allegation as unfounded, or
 - b. Contact the student for a discussion and either:
 - (1) Dismiss the allegation.
 - (2) Identify that the alleged violation(s) equate to a Level I infraction and assign the case to a student conduct officer to conduct a student conduct meeting with the student(s).
 - (3) Identify that the alleged violation(s) equate to a Level II infraction and schedule a hearing with the Student Discipline Committee.

- 5. **Summoning a Student for a Student Conduct Meeting**
 A student conduct meeting is a meeting between a student(s) involved in an alleged violation of the code and a student conduct officer and may include sanctions. In some cases, the meeting may resolve the matter.
 - a. The student conduct officer shall provide the student with:
 - (1) Written notice of the charge(s) and an outline of rights.
 - (2) Review of all available information, documents, exhibits, and a list of witnesses that may testify against the student.
 - b. Following receipt of the notice of charges, a student:
 - (1) May elect not to contest the charges and to accept responsibility for them. If this election is made, the student must sign a waiver of the right to a hearing, and must accept the sanction imposed by the student conduct officer. The decision to waive a hearing and accept the sanction is final and not appealable.

- (2) May contest the charges and elect to proceed to a hearing. The hearing shall be scheduled not less than five (5) nor more than 15 calendar days from the student conduct meeting.

G. Hearing Process

Hearings provide the forum where parties to an allegation are afforded the opportunity to present information for review by a Student Discipline Committee presided over by the chair of the Committee and moderated by the dean of students. The dean of students is an ex-officio member of the committee. A time shall be set for a Student Discipline Committee hearing, not less than five (5) nor more than 15 calendar days after the student has been notified. The maximum time limit for scheduling of hearings may be extended at the discretion of the dean of students or designee. Hearings shall be conducted by the Student Discipline Committee according to the following guidelines, except as provided by article J below:

1. In cases in which the Student Discipline Committee has been authorized by the dean of students to conduct a hearing, the recommendations of the members of the Student Discipline Committee shall be considered in an advisory capacity by the dean of students in determining and imposing sanctions.
2. Composition: The Student Discipline Committee is composed of 15 members. Recommendations for membership on the Student Discipline Committee from the deans of each academic college, the faculty, the administration and staff of the University, and the executive committee of Student Government will be sought by the dean of students on an annual basis, or more frequently as needed. At the discretion of the dean of students, general solicitation of the student body for participation may be made. Based upon these recommendations and/or solicitations, candidates who meet eligibility requirements will be invited to apply and interview for participation on the Student Discipline Committee.
3. Term of service: Students shall serve for one academic year and may continue to serve at the discretion of the provost and the dean of students.
4. Student eligibility: All students, full- or part-time, shall be eligible for recommendation to the Student Discipline Committee provided they have maintained a 2.30 cumulative grade point average, are not currently on disciplinary probation, and have not been suspended from the residence halls or the University.
5. Training: All members of the Student Discipline Committee, upon receiving notice of appointment, shall be given all necessary information about their responsibilities and the means for carrying them out.
6. Five students from the Student Discipline Committee will be chosen by the dean of students to hear a proceeding.
7. Hearings normally shall be conducted in private.
8. The complainant, the accused student, and their advisors, if any, shall be allowed to attend the entire portion of the Student Discipline Committee hearing at which

- information is received (excluding deliberations). Admission of any other person to the hearing shall be at the discretion of the Student Discipline Committee and/or the dean of students or designee.
9. In the case of Student Discipline Committee hearings involving more than one accused student, the dean of students or designee, at his/her discretion, may permit the Student Discipline Committee hearings concerning each student to be conducted either separately or jointly.
 10. The complainant and the accused student have the right to be assisted by any advisor they choose, at their own expense. The advisor may be an attorney. The complainant and/or the accused are responsible for presenting his or her own information and, therefore, advisors are not permitted to speak or to participate directly in any hearings before the Student Discipline Committee. A student should select as an advisor a person whose schedule allows attendance at the scheduled date and time for the Student Discipline Committee because delays will not normally be allowed due to the scheduling conflicts of an advisor.
 11. The complainant, the accused student, and the Student Discipline Committee may arrange for witnesses to present information to the Student Discipline Committee. The University will try to arrange the attendance of possible witnesses who are members of the University community, if reasonably possible, and who are identified by the complainant and/or accused student at least two (2) business days prior to the Student Discipline Committee hearing. Witnesses will provide information to and answer questions from the Student Discipline Committee. Questions may be suggested by the accused student and/or complainant to be answered by each other or by other witnesses, with such questions directed to the chairperson, rather than to the witness directly. This method is used to preserve the educational tone of the hearing and to avoid creation of an adversarial environment. Questions of whether potential information will be received shall be resolved at the discretion of the chairperson of the Student Discipline Committee, in consultation with the dean of students or designee.
 12. Pertinent records, exhibits, and written statements (including Student Impact Statements) may be accepted as information for consideration by the Student Discipline Committee, at the discretion of the dean of students.
 13. All procedural questions are subject to the final decision of the dean of students.
 14. After the portion of the Student Discipline Committee hearing concludes in which all pertinent information has been received, the Student Discipline Committee shall determine by majority vote whether the accused student has violated each section of the Student Code that the student is charged with violating.
 15. The Student Discipline Committee's determination shall be made on the basis of whether it is more likely than not that the accused student violated the Student Code.

16. Formal rules of process, procedure, and/or technical rules of evidence, such as are applied in criminal or civil court, are not used in Student Code proceedings.
17. There shall be a single verbatim record, such as a transcription or tape recording, of all hearings before a Student Discipline Committee (not including deliberations). Deliberations shall not be recorded. Transcriptions and/or tapes made during Student Discipline Committee hearings shall be the property of the University. These materials are confidential. They are made available in case of appeal and, upon request, to the Discipline Appeals Committee hearing the appeal.
18. If the accused student, with notice, does not appear before a Student Discipline Committee hearing, the information in support of the charges shall be presented and considered even if the accused student is not present. If the accused student fails to attend the hearing, it shall be deemed that he or she denies all allegations. When appropriate, a sanction will be determined and the student will be notified in writing.
19. The Student Discipline Committee may accommodate concerns for the personal safety, well-being, and/or fears of confrontation of the complainant, accused student, or other witness during the hearing by providing separate facilities, by using a visual screen, and/or by permitting participation by telephone, videophone, closed circuit television, video conferencing, videotape, audio tape, written statement, or other means, where and as determined in the sole judgment of the dean of students to be appropriate.

H. Sanctions

1. The following sanctions may be imposed upon any student found to have violated the Student Code:
 - a. **WARNING** - A notice in writing to the student that the student is violating or has violated institutional regulations.
 - b. **PROBATION** - A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to violate any institutional regulation(s) during the probationary period.
 - c. **LOSS OF PRIVILEGES** - Denial of specified privileges for a designated period of time.
 - d. **LOSS OF ACADEMIC CREDIT** - Failing grade assigned for the course due to academic dishonesty.
 - e. **FINES** - Previously established and published fines may be imposed.
 - f. **RESTITUTION** - Compensation for loss, damage, or injury. This may take the form of appropriate service and/or monetary or material replacement.
 - g. **DISCRETIONARY SANCTIONS** - Work assignments, essays, service to the University, or other related discretionary assignments. (Such assignments must have the approval of the dean of students.)
 - h. **RESIDENCE HALL SUSPENSION** – Separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
 - i. **RESIDENCE HALL EXPULSION** – Permanent separation of the student from the residence halls.

- j. UNIVERSITY SUSPENSION - Separation of the student from the University for definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
 - k. UNIVERSITY EXPULSION - Permanent separation of the student from the University.
 - l. REVOCATION OF ADMISSION AND/OR DEGREE – Admission to or a degree awarded from the University may be revoked for fraud, misrepresentation, or other violation of University standards in obtaining the degree, or for other serious violation committed by a student prior to graduation.
 - m. WITHHOLDING DEGREE – The University may withhold awarding a degree otherwise earned until the completion of the process set forth in this *Student Code of Conduct*, including the completion of all sanctions imposed, if any.
2. More than one of the sanctions listed above may be imposed for any single violation.
 3. Other than University suspension, expulsion, or revocation or withholding of a degree, disciplinary sanctions shall not be made part of the student’s permanent academic record, but shall become part of the student’s disciplinary record. Upon graduation, the student’s disciplinary record may be expunged of disciplinary actions, other than residence hall expulsion, University suspension, University expulsion, or revocation or withholding of a degree, upon application to the dean of students. Cases involving the imposition of sanctions other than residence hall expulsion, University suspension, University expulsion, revocation or withholding of a degree shall be expunged from the student’s disciplinary record three (3) years after the student completes all requirements for graduation.
 4. In situations involving both an accused student(s) (or group or organization) and a student(s) claiming to be the victim of another student’s conduct, the records of the process and of the sanctions imposed, if any, shall be considered to be part of the education records of both the accused student(s) and the student(s) claiming to be the victim because the educational career and chances of success in the academic community of each may be impacted.
 5. The following sanctions, in addition to those listed above, may be imposed upon groups or student organizations: loss of selected rights and privileges for a specified period of time, and/or deactivation/loss of all privileges, including University recognition, for a specified period of time.
 6. In each case in which a student conduct officer determines that a student has violated the Student Code, the recommendation of the student conduct officer shall be considered by the dean of students in determining and imposing sanctions. In cases in which the Student Discipline Committee has been authorized to determine that a student has violated the Student Code, the recommendation of all members of the Student Discipline Committee shall be considered by the dean of students in determining and imposing sanctions. The dean of students is not limited to sanctions recommended by members of the Student Discipline Committee.

7. Following the Student Discipline Committee hearing, the dean of students shall advise the accused student(s), group and/or organization (and complaining student who believes she/he was the victim of another student's conduct) in writing of its determination and of the sanction(s) imposed, if any. A copy of the notification will be retained in the student's disciplinary record. Cases involving suspension or expulsion will also be filed in the student's academic record.

I. Appeals

1. A decision reached by the Student Discipline Committee or a sanction imposed may be appealed by the accused student(s) or complainant(s) to the Discipline Appeals Committee within seven (7) school days of the decision. Such appeals shall be in writing and shall be delivered to the dean of students or designee.
2. Composition: The Discipline Appeals Committee is composed of three (3) members: (a) the chair of the Faculty Senate; (b) the assistant provost for enrollment management; (c) the president of Student Government.
3. Except as required to explain the basis of new information, an appeal shall be limited to review of the verbatim records of the Student Discipline Committee hearing and supporting documents for one or more of the following purposes:
 - a. To determine whether the Student Discipline Committee hearing was conducted fairly in light of the charges and information presented, and in conformity with prescribed procedures, giving the complaining party a reasonable opportunity to prepare and present evidence that the Student Code was violated, and giving the accused student a reasonable opportunity to prepare and to present a response to those allegations. Deviations from designated procedures will not be a basis for sustaining an appeal unless significant prejudice results.
 - b. To determine whether the decision reached regarding the accused student was based on substantial information; that is, whether the facts in the case, if believed by the fact finder, were sufficient to establish that a violation of the Student Code occurred.
 - c. To determine whether the sanction(s) imposed were appropriate for the violation of the Student Code that the student was found to have committed.
 - d. To consider new information, sufficient to alter a decision, or other relevant facts not brought out in the original hearing, because such information and/or facts were not known to the person appealing at the time of the original Student Discipline Committee hearing.
4. If the Discipline Appeals Committee upholds an appeal, the matter may be returned to the original Student Discipline Committee for reopening of the Student Discipline Committee hearing to allow reconsideration of the original determination and/or sanction(s).
 - a. In cases involving appeals by students accused of violating the Student Code, the Discipline Appeals Committee may, upon review of the case, reduce but not increase the sanctions imposed by the Student Discipline Committee.

- b. In cases involving appeals by persons other than the student(s) accused of violating the Student Code, the Discipline Appeals Committee may, upon review of the case, reduce or increase the sanctions imposed by the Student Discipline Committee.
5. Following the appeal, the dean of students shall advise the accused student(s) in writing of the determination of the Discipline Appeals Committee and of the sanction(s) imposed, if any. A copy of the notification will be retained in the student's disciplinary record. Cases involving University suspension, expulsion, or revocation or withholding of a degree will be filed in the student's academic record.

J. Exceptional Procedures

1. Interim Suspension

In certain circumstances, the dean of students or designee may impose a University or residence hall suspension prior to the hearing before the Student Discipline Committee. Interim suspension is an action requiring that a student immediately leave the campus and University property.

- a. Interim suspension may be imposed only: a) to ensure the safety and well-being of members of the University community or preservation of University property; b) to ensure the student's own physical or emotional safety and well-being; or c) if the student poses an ongoing threat of disruption of or interference with the normal operations of the University. During the interim suspension, the student shall be denied access to housing facilities and/or the campus (including classes) and/or all other University activities or privileges for which the student might otherwise be eligible, as the dean of students or designee may determine to be appropriate.
- b. Any student who is suspended on an interim basis and returns to the campus and University property during the suspension shall be subject to further disciplinary action and may be treated as a trespasser. Permission to be on campus for a specific purpose (e.g., to take an exam, to consult with the dean of students, or to participate in the disciplinary procedures) may be granted in writing by the dean of students or designee.

2. Suspension from the Housing Facilities

The director of residence life or the dean of students or designee may, when charges are served, suspend an accused student(s) from the housing facilities pending the hearing and determination thereof, whenever the continued presence of such a student would constitute a danger to the student or to the safety of persons or property in the housing facilities, or would pose a threat of disruptive interference with the normal conduct of housing facility activities and functions, or the seriousness of the charges warrants such action. The dean of students or designee shall grant an immediate review (by the end of the next business day after the suspension) on request of any student so suspended with respect to the basis for such a suspension, at which time the suspended student may have the right to present statements tending to show that the basis for the suspension from the housing facilities does not exist. Suspension may apply to all housing facilities, an individual residence hall/apartment, or any portion thereof.

- 3. Residence Hall/Temporary Reassignment and Restriction from Facilities**
The director of residence life or the dean of students or designee may temporarily reassign a resident to another facility and/or restrict a resident from specific campus facilities pending an investigation and/or hearing whenever the continued presence of a resident in a particular campus facility would constitute a danger to the student or to the safety of persons or property in the housing facilities and campus facilities, or the seriousness of the allegations warrants such action. The director of residence life shall grant an immediate review (by the end of the next business day after the temporary reassignment and/or restriction) on request of any resident so reassigned and/or restricted with respect to the basis for such a reassignment and/or restriction.
- 4. Temporary Restriction from Personal Contact**
The director of residence life or the dean of students or designee may temporarily restrict a student from any personal, verbal, written, telephone, electronic, and third-party contact with another person pending an investigation and/or hearing whenever the contact could constitute a danger to the person or to the safety of the person or property, or the seriousness of the allegations warrants such action. Any student so restricted may obtain an explanation of the basis for such restriction upon request.
- 5. Withdrawal Prior to Student Conduct Proceedings**
The student who withdraws or fails to return to the University while disciplinary action is pending will be ineligible for readmission until the outstanding matter is resolved. The University reserves the right to formally restrict individual(s) from the campus grounds while such action is pending. Any further readmission would require an appeal in writing to the dean of students or designee and approval by the dean of students or designee.

K. Interpretation and Review

1. Any question of interpretation regarding the Student Code shall be referred to the dean of students or his/her designee for final determination.
2. The Student Code shall be reviewed every three (3) years under the responsibility of the dean of students with the input of an advisory team.

NON-DISCRIMINATORY POLICY

Lawrence Technological University adheres and conforms to all federal, state, and local civil rights regulations, statutes and ordinances. No person, student, faculty, or staff member will knowingly be discriminated against relative to the above statutes. Lawrence Technological University is an equal opportunity employer. Direct inquiries regarding non-discriminatory policies to: Office of Student Affairs, 21000 West Ten Mile Road, Southfield, MI 48075-1058, 248.204.4100.

SEXUAL HARASSMENT POLICY

It is the policy of Lawrence Technological University to maintain an environment free of sexual harassment for students, faculty, staff, or any other constituency. Sexual harassment is contrary to the standards of the University community. It diminishes individual dignity and impedes equal employment, educational opportunities, and equal access to freedom of academic inquiry. It will not be tolerated at Lawrence Technological University.

What Is Sexual Harassment?

Harassment on the basis of sex is a violation of the Elliott-Larsen Civil Rights Act; Michigan Civil Service Commission Rules; the Office of Federal Contract Compliance regulations; and Title VII of the Civil Rights Act of 1964. According to guidelines issued by the Equal Employment Opportunity Commission in 1980,

“Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature, even between people of the same sex constitutes sexual harassment when:

1. Submission to such conduct or communication is made either explicitly or implicitly a term or condition of an individual’s employment, education, or participation in a University activity; or
2. Submission to, or rejection of, such conduct or communication by an individual is used as the basis for decisions affecting an individual’s employment, education, or participation in a University activity; or
3. Such conduct or communication has the purpose or effect of unreasonably interfering with an individual’s work or educational performance or of creating an intimidating, hostile, or offensive employment or education environment.

“Sexual harassment can also exist when there has been no tangible job detriment (i.e., a significant change in employment status, such as hiring, firing, etc.). Courteous, respectful, pleasant, non-coercive mutual interactions between employees are not considered sexual harassment.

“Personal (i.e., intimate) relationships that occur between persons who are in a supervisory-subordinate work relationship must be reported to the next level of management. In such situations, the department will take appropriate action.”
(According to the United States Supreme Court in *Oncale v. Sundowner Offshore Services, Inc.*, No. 96-569, 1998.)

Although these guidelines, based on Title VII, apply specifically to sexual harassment in the workplace, they should be interpreted to apply to students as well under Title IX of the 1972 Education Amendments. As has been pointed out by the National Advisory Council on Women’s Educational Programs (NACWEP), there is a serious problem “of harassment by gatekeepers – those who teach required courses or who have the authority to make critical decisions about a student’s advancement. The extraordinary importance of such positions lends an exceptional degree of significance to every interaction with students, and makes sexual harassment of all types particularly harmful.”

Common Types of Harassment

The NACWEP describes five classifications of harassment commonly reported by students and working women.

1. Generalized sexist remarks or behavior (e.g., “This is a man’s job,” “That’s women’s work,” “Women/men are incompetent at/are better suited to...”). Leering or staring, crude sexual remarks, off-color jokes, suggestive stories, and other related behaviors are also grouped in this category.

“This type of behavior is close to racial harassment in appearance; the sentiments or actions involved are often fiercely anti-male or anti-female and are not intended to lead to sexual activity. They are directed to the (individual) because of gender and can often affect whole classrooms; the offense may be ‘generalized’ both by its nature and its audience. There can be an inherent sexual content in or underlying such remarks that establishes a tone which in its awkwardness is more damaging than many overt acts.” (Frank J. Till, “Sexual Harassment: A Report on the Sexual Harassment of Students, the National Advisory Council on Women’s Educational Programs, August 1980.” Reprinted from *Sexual Harassment: Definition and Prevention*, State University of New York at Binghamton, 1988. Reprinted with permission.)

2. Inappropriate and offensive sexual advances (e.g., requests for social or sexual encounters, often accompanied by touching).

This type of harassment, while not necessarily threatening, usually makes the recipient uncomfortable. This discomfort may cause the recipient to avoid the perpetrator in the future, thus limiting his or her ability to function properly in the academic environment. Discomfort caused by harassment will almost certainly affect future professional and personal relationships.

3. Solicitation of sexual activity or other sex-related behavior by the promise of rewards (e.g., grades, promotions, promises of greater opportunities, etc.).

“This category, in its extreme, literally amounts to an attempt to purchase sexual behavior. In its more blatant forms this type of behavior can be prosecuted as a criminal act ... even ‘banter’ along this vein may cause harm. Students may be mystified and confused by the interaction due to the power of the initiator. This is especially the case where the student propositioned is young or naive, and may fail to fully grasp the significance of the request.” (Till, “Sexual Harassment,” 16)

4. Coercion of sexual activity by threat of punishment (e.g., refusal to comply with a sexual request or invitation results in a threat of failure, loss of job or promotion, or access to academic referrals).

“What is at stake is often more than one grade or a single recommendation – too frequently it is access to a discipline and so a career is jeopardized.” (Till, “Sexual Harassment,” 17)

5. Sexual crimes and misdemeanors (e.g., criminal sexual assault [rape, indecent exposure, etc.]) across authority lines [faculty/student or employer/ employee] or among colleagues and peers.

“This category refers to acts which, if reported to police authorities, would be considered crimes or misdemeanors.” (Till, “Sexual Harassment,” 22)

Preventing Sexual Harassment

Although the ultimate burden for prevention of harassment rests with those in supervisory positions, others should be aware that their actions may be construed as harassment. Following are some suggestions to supervisors, staff, faculty, and students for preventing sexual harassment, regardless of who is the perpetrator and who is the recipient.

- Avoid sexist remarks, off-color stories, or lewd jokes.
- Keep doors open when possible.
- Ask someone to accompany you if you suspect that you may be harassed.
- Make it plain that your intentions are not sexual in nature.
- Make clear, through your behavior, conversation, and actions that you find sexual harassment offensive and inappropriate.

Combating Sexual Harassment

Employees, students, or faculty who feel they are experiencing this form of discrimination should:

1. *Say No Clearly.* Inform the harasser that his or her attentions are unwanted. If the behavior persists, write a memo to the harasser asking him or her to stop; keep a copy.
2. *Document the Harassment.* Record the date, time, and place of each incident. Keep a copy of this record at home.
3. *Get Emotional Support.* Talk to your family and friends.
4. *Document Work Evaluations.* Keep copies of performance evaluations and memos that attest to the quality of your work.
5. *Identify Witnesses/Other Victims.* You are probably not the first person who has been mistreated by this individual. Ask around; you may find others who will support your charge. (Sexual Harassment: What Every Working Woman Needs to Know, cs.utk.edu/~bartley/other/pto5.html).

The least effective way to deal with sexual harassment is to ignore it. Unless the recipient of unwanted sexual attention takes some kind of action (whether formal or informal), the harasser is very likely to continue or even escalate the harassing behavior.

The following suggestions for combating sexual harassment reflect a variety of options, ranging from informal methods to formal procedures.

Confidential Counseling

Students may obtain information about or assistance with sexual harassment issues from the Office of the Dean of Students. Staff, faculty, and administrators should seek help from the Office of Human Resources. University representatives can advise and support complainants and witnesses in a confidential setting. The complainant, alleged harasser, and any witness shall be informed that all records of complaints, statements, interviews, contents of meetings, results of investigations, and any other relevant materials will be

kept confidential by the employer, except where disclosure is required by a grievance process or pursuant to a legal action.

Unless otherwise authorized by law, disclosure or publication by any person of the complaint, the facts, or the identity of involved parties or witnesses is prohibited and subject to disciplinary action. Discussions with representatives of the above-mentioned offices will not be considered official reports to the University and will not, without additional action by the complainant, result in intervention or corrective action. When intervention and discipline result against the alleged harasser, appropriate reference will be made in his or her file to protect the privacy of the complainant and witnesses.

Informal Resolution Process

At the complainant's option, a sexual harassment report or complaint will be taken from staff by the Office of Human Resources and from students by the Office of the Dean of Students or any dean, director, department head, the director of residence life, and/or their designees. Each college or other University organization will designate both men and women to receive complaints.

The person who receives a sexual harassment report or complaint will advise the person who makes the complaint about the informal and formal resolution alternatives available. At the complainant's option, the person receiving the complaint can:

- provide information about sexual harassment;
- help the complainant deal directly with the alleged offender;
- assist with or mediate a resolution of the problem within the complainant's unit; and/or;
- help the complainant prepare a written complaint and pursue formal action.

Informal resolution measures should address the particular circumstances. No action will be taken against the alleged offender if the resolution is kept informal. Any discussion with the accused individual should, unless the provost or director of Human Resources specifically decides otherwise, include the supervisor of accused staff, faculty, or administrator. Any discussion with an accused student will include a member of the Division of Student Affairs and the student's department chair.

Formal Resolution Process

Either subsequent to or instead of following the informal process, a complainant may elect to make a formal charge of sexual harassment. The University will investigate all formal charges of sexual harassment and take appropriate actions pursuant to the results of the findings.

There are several mechanisms available to pursue a formal charge, and their availability depends on the status of the complainant:

1. A student should notify the Office of the Dean of Students. If this is not possible, then the student may contact the Offices of the President or Provost.
2. A member of the staff, faculty, or administration may notify his or her supervisor, a department head or dean, or the Offices of the President or Provost, the Office of Human Resources, or the Office of the Dean of Students. A student-employee may also notify any of these.

3. Contract employees should follow the same procedure followed by staff, faculty, and administrators.

Call the Office of Civil Rights at 216.522.4970 to make a sexual harassment complaint. Report all incidents of criminal sexual assault to the Department of Campus Safety at 248.204.3945 or the Southfield Police Department at 248.354.5500.

Counseling Can Help

Sexual harassment undermines the confidence of students or employees and adversely affects their attitudes and job or academic performances. All students and employees may talk, confidentially, to trained counselors in the Division of Student Affairs if they believe they have been sexually harassed.

Counselors can be an immediate source of help by:

- encouraging the victim to report the incident(s);
- acting as a liaison between the victim and management;
- helping the victim readjust to the work or school environment; and
- helping the victim regain confidence. (Reprinted from *Where Do You Draw the Line? Sexual Harassment in the Workplace*, American Counseling Association, 4. Reprinted with permission. No further reproduction authorized without written permission of American Counseling Association.)

Counselors can also help management develop a proactive approach in dealing with sexual harassment issues by incorporating discussions on the topic during workshops, seminars, and/or training sessions.

PARTICIPATION IN THE U.S. DRUG PREVENTION PROGRAM

Lawrence Technological University is committed to promoting and maintaining a work and academic environment that is free from illegal use of alcohol and drugs, in accordance with all federal, state, and local laws as well as the Drug Free Schools and Campus Safety Act. Lawrence Technological University is in compliance with all provisions of the U.S. Department of Education Drug Prevention Program, which is a condition of the University's eligibility to receive federal funds or any other form of federal financial assistance.

Applicable policies are provided in sections 16.0 and 16.1 of the *Staff Handbook*, section 2.18 of the *Faculty Handbook*, and in the Policies, Procedures, and Regulations section of the *Student Handbook*. The University specifically prohibits the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees on its property or as a part of its activities (except at University functions at which alcohol use is approved). Use of alcoholic beverages at any University function requires the approval of the provost or designee.

Employees, students, and campus visitors age 21 years or older, who consume alcohol at University functions or while on University business where such use is approved, are expected to use alcohol responsibly and not engage in illegal, unprofessional, or

disruptive behavior. Violators will be subject to penalties, which may include expulsion or separation from the University. Any employee or student found to be in violation of University policy regarding drugs or alcohol will be subject to disciplinary action up to and including dismissal or expulsion in accordance with applicable disciplinary procedures.

Possession, use, or distribution of illicit drugs, possession or consumption of alcoholic beverages by individuals under 21 years of age, and distribution of alcohol without a license or permit issued by a competent legal authority are violations of local, state, and federal laws. It is the policy of the University to cooperate fully in any prosecution based on violation of these laws.

A variety of serious health risks are associated with the use of illicit drugs and the abuse of alcohol. These include permanent damage to the liver, brain, and other vital organs, heart damage or malfunction, including sudden death, and accidents caused by impaired judgment or abilities. Individuals who may have a drug dependency or alcohol abuse problem are advised to contact the Oakland County Drug and Substance Abuse Center, 248.858.5200.

LIABILITY DISCLAIMER

Lawrence Technological University shall not be liable for any injuries to, or property damage or loss suffered by, any student regardless of cause. This disclaimer of liability shall apply to, but not by way of limitation, the following:

- Any injury or damage incurred on property owned by or under the control of the University, or its subsidiaries, such as classrooms, apartments or other housing, any other structures, all common areas and grounds, and vehicles;
- Any injury or damage incurred as a participant, spectator or otherwise in any intramural or intercollegiate or other event or contest, athletic or otherwise, or while in transit thereto or therefrom;
- Any injury or damage suffered while engaged in or attending a classroom or related activity, whether required or elective, and regardless of cause;
- Any injury or damage suffered by reason of theft, fire, damage by the elements, or other casualty;
- Any injury or damage suffered by reason of any act or omission of any University trustee, officer, member of the faculty or staff, employee, contractor or student.

By applying for admission or readmission to the University, or by continuing their enrollment with the University for a subsequent semester, students accept the foregoing disclaimer and agree to be bound thereby. Emergency referrals are made to community agencies. Any expenses incurred are the responsibility of the student.

Degrees and Graduation

DEGREES

Lawrence Technological University offers curricula leading to the following professional or post-professional graduate degrees or certificates. (For information on undergraduate degrees, see the *Undergraduate Catalog* or *ltu.edu*).

College of Architecture and Design:

Certificate in Architectural Management
Certificate in Critical Studies in Architecture
Certificate in Sustainable Architecture
Certificate in Urban Design
Master of Architecture
Master of Interior Design

College of Arts and Sciences:

Master of Educational Technology
Master of Science Education
Master of Science in Computer Science
Master of Science in Technical and Professional Communication

College of Engineering:

Certificate in Manufacturing Systems
Master of Civil Engineering
Master of Construction Engineering Management
Master of Engineering in Manufacturing Systems
Master of Engineering Management
Master of Science in Automotive Engineering
Master of Science in Civil Engineering
Master of Science in Electrical and Computer Engineering
Master of Science in Mechanical Engineering
Master of Science in Mechatronic Systems Engineering
Doctor of Engineering in Manufacturing Systems

College of Management:

Certificate in Nonprofit Management and Leadership
Certificate in Project Management
Master of Business Administration
Master of Science in Information Systems
Master of Science in Operations Management
Doctor of Business Administration
Doctor of Management in Information Technology

REQUIREMENTS FOR GRADUATION

Students must submit a Petition for Graduation preceding the date of their expected graduation. This petition has a specific due date that depends on the semester of graduation. These dates are available on the Lawrence Tech website, *ltu.edu*, or can be obtained from Enrollment Services. It is the student's responsibility to be aware of these dates and adhere to them. Processing of petitions after the due date, if approved by Enrollment Services, requires that a substantial late-processing fee be assessed to the student. Further, availability of caps, gowns, and diplomas in time for commencement cannot be guaranteed.

Students planning to participate in the spring commencement ceremony must complete the Petition to Graduate form and submit it to Enrollment Services by April 15. Petition to Graduate forms can be downloaded at ltu.edu/registrars_office/forms_to_print.index.asp. Students may submit their forms at the DTE One Stop Center in the A. Alfred Taubman Student Services Center or fax them to 248.204.2228. For more information, contact Enrollment Services at 248.204.2280 or graduation@ltu.edu.

A graduation fee is charged and is refundable in the event the student does not complete requirements as planned. A new petition must be submitted in the event requirements for graduation are not completed before the end of the summer semester immediately following the academic year.

The Master of Architecture is awarded to graduates who maintain a minimum cumulative 3.0 grade point average (GPA) in all degree program classes. Students who maintain at least a 3.5 cumulative GPA in graduate courses will receive the diploma honor "With Distinction."

Master's degrees offered through the Colleges of Arts and Sciences, Management, and Engineering are awarded upon completion of all required course work within seven (7) years of matriculation and maintenance of a minimum 3.0 cumulative GPA. Students in the College of Management who maintain at least a 3.85 cumulative GPA in graduate courses will receive the diploma honor "With Distinction."

The University reserves the right to modify its graduation and other academic requirements as may be deemed necessary. It will be obligated only during the academic year of the student's registration by requirements published in the *Graduate Catalog* and on the University's website for that year.

COURSE NUMBER AND LEVEL

In the curriculum descriptions that follow, courses are identified by an alphanumeric course number. The alphabetic prefix represents the subject area.

College of Architecture and Design

Architecture	ARC
Digital Arts	ART
Interior Architecture and Interior Design	ARI
Facility Management	ARM

College of Arts and Sciences

Biology	BIO
Botany	BOT
Chemistry	CHM
Communications	COM
Educational Technology	MET
English as a Second Language	ESL
Geology	GLG
Language and Literature	LLT
Mathematics and Computer Science	MCS
Media Communication	MCO
Natural Science Co-Op	SCO
Physical Science	PSC
Physics	PHY
Psychology	PSY
Radio and Television Broadcasting	RTS
Science Education	SCE
Social Science	SSC
Spanish	SPN

College of Engineering

Biomedical Engineering	BME
Engineering Co-Op	ECO
Civil Engineering	ECE
Electrical Engineering	EEE
Mechanical Engineering	EME
Mechatronic Systems Engineering	MSE
General Engineering	EGE

College of Management

Accounting	ACC
Dissertation	DIS
Doctor of Business Administration	DBA
Finance	FIN
Global	GLO
Global Leadership and Management	GLM
Human Resources Management	HRM
Information Technology	INT

Management	MGT
Management Information Systems	MIS
Marketing	MKT
Operations Management	OPM

The first number following the alpha prefix indicates the academic level of the course:

0	Basic Studies (zero-level courses normally do not provide degree credit)
1	Freshman
2	Sophomore
3	Junior
4	Senior
5, 6, 7	Professional, Post-Professional, and Graduate level
8	Doctoral

The last of the four numbers normally indicates the semester hours of credit assigned to the course. For example, ARC3653 carries three hours of credit.

CATALOG OF ENTRY – LIMITATIONS

Although graduation requirements of the University may change while a student is enrolled, students are normally expected to meet the graduation requirements outlined in the *Catalog* that is in effect at the time they matriculate, as long as the courses are still offered by the University. Substitutions may be made for required courses that may no longer be available. However, if the new graduation requirements may be adapted to a student's current course of study without increasing his or her credit hour requirements or existing prerequisites, the new requirements shall prevail. Students interrupting their studies for three calendar years or more must reapply for admission (see Admission section of this *Catalog*, Interruption of Studies). If readmitted, the *Catalog* in effect at the time of readmission is used to determine graduation requirements.

In addition, within the College of Architecture and Design, the requirements outlined in the Addendum to the *Graduate Catalog* for the Master of Architecture degree for the year of entry into the respective program also apply.

College of Architecture and Design

Dean

Glen S. LeRoy, FAIA, FAICP
A129, 248.204.2805

Associate Dean

Joseph C. Veryser, AIA
A117, 248.204.2818

Assistant Dean of Graduate Studies

Virginia North, IIDA, ASID, IESNA, AIA Associate
A129C, 248.204.2848

Department Chair, Architecture

Edward Orłowski, AIA, LEED
A129B, 248.204.2834

Graduate Program Administrative Assistant:

Alice McHard
A116, 248.204.2834

Professors

William S. Allen
Glen S. LeRoy
Virginia North

Associate Professors

Daniel L. Faoro
Jin Feng
Dale Gyure
Joongsub Kim
Gretchen Maricak
Rochelle Martin
Edward Orłowski
Danny Price
Paul Wang

Assistant Professors

Anirban Adhya
Phillip Plowright
Ashraf Ragheb

Senior Lecturer

Donn Perez

Adjunct Professors

Additional lecturers are assigned to selected courses and sections based on their particular specialties and expertise and are listed in the faculty roster.

Faculty Council

Dale Gyure, chair
Janis Means
Phillip Plowright
Donn Perez
Gretchen Rudy

Advisory Council on Architecture

John Castellana, FAIA
senior vice president, TMP Architecture
Bill Hartman, AIA
director of design, Gensler
Deirdre Jimenez, AIA, ASID
vice president, managing principal, Carter Burgess Consultants, Inc.
Barbara A. McGee, AIA
principal, Spectrum Strategies
Arthur F. Smith, FAIA
principal, Harley Ellis Devereaux
Les Tincknell, FAIA
Wigen, Tincknell, Meyer, and Associates
Hub White, AIA
architect
Glen S. Leroy, FAIA, FAICP
dean, College of Architecture and Design, Lawrence Technological University,
executive secretary

Advisory Council on Interior Architecture and Design

John Bodag, ASID
vice president and director, Ford and Earl Associates, Inc.
Suzanne Buckley, ASID
interior architecture, Harley Ellis Devereaux
Thomas Ernst, ASID
chair and CEO, Ford and Earl Associates, Inc.
Brian Hucker, ARIDO
interior design coordinator, St. Clair College
Gerald Peters, ASID
president, Minoru Yamasaki Associates
Harrell Scarcello, ASID
president, Scarcello and Associates
Virginia North, IIDA, ASID, IESNA, AIA Associate
assistant dean of graduate studies, Lawrence Technological University,
executive secretary

DEGREE PROGRAMS OFFERED

Lawrence Tech's College of Architecture and Design offers these graduate programs:

- Master of Architecture
- Master of Interior Design
- Certificate in Architectural Management
- Certificate in Critical Studies in Architecture
- Certificate in Sustainable Design
- Certificate in Urban Design

The College of Architecture and Design at Lawrence Technological University is among the 30 oldest schools of architecture in the United States. Its mission is to provide a comprehensive architectural education, which synthesizes diverse approaches, disciplines, and human resources. The intent is to develop graduates committed to creative inquiry, critical thinking, progressive architectural design, communication, and professional leadership.

Lawrence Tech's architecture program emphasizes design integration and experimentation through innovative curricula that emphasize the interrelationship of technical, social, environmental, and philosophical ideas. Architecture cannot be created in isolation. Its success depends on supportive harmony with all creative disciplines. Lawrence Tech believes in the architect, educated as a generalist and focused on the creative process, prepared to cope with the complex demands dictated by contemporary society.

There are four concentrations in the Master of Architecture program. An Architecture Design and Practice concentration focuses on architectural design and the theories and practices that contribute to the profession of architecture. The concentration in Critical Studies in Architecture supports architectural research as a basis for investigation. The Urban Design concentration involves community design and is offered in the Detroit Studio, where students network with representatives from government, the design professions, and the business community. The Detroit Studio offers an enriched educational experience through an urban laboratory for design and research projects. A concentration in Sustainable Architecture allows interdisciplinary studies related to the design of sustainable environments.

The curricula of the College of Architecture and Design are structured in four undergraduate programs, two professional degree programs, and four certificate programs. Students are cautioned that course selection approval at the time of registration is based on stated prerequisite requirements and the student's ability to maintain adequate academic progress in collateral courses as indicated in the respective curriculum outlines. For firsthand experience, great emphasis is placed on field trips, which may be a part of any course offered by the College.

Transfer students are encouraged to enter any of the degree programs in which they have the interest and qualification. When a complete or accurate description of previous course work is lacking, a transfer student may be asked to present a portfolio of work, complete specific studio problems, or enroll in certain courses to ensure correct placement within the program. Lawrence Tech's College of Architecture and Design is a member of the Association of Collegiate Schools of Architecture and the National Institute for

Architectural Education. The Bachelor of Interior Architecture program is accredited by the Council for Interior Design Accreditation (CIDA) and the BFA in imaging by the National Association of Schools of Art and Design (NASAD).

NAAB ACCREDITATION

The Master of Architecture degree is accredited by the National Architectural Accrediting Board (NAAB).

As stated by the National Architectural Accrediting Board (NAAB), 2004 Conditions and Procedures: “In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

“Master’s degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.”

Lawrence Tech’s Master of Architecture professional degree program requires the applicant to hold an undergraduate degree in architecture from a recognized college or university school of architecture.

PROGRAM DECLARATION

Students must declare which program they will pursue at the time the graduate application is submitted. The *Graduate Catalog* and addenda in effect at the time of acceptance into the particular program are the governing determinants of the degree requirements that apply.

MASTER OF ARCHITECTURE (MArch)

For students desiring a career of leadership in society and practice, the University offers the Master of Architecture (MArch) professional degree program. It offers the academic credentials for professional licensing and admission to the field of architecture. This program of academic course work combines graduate studies in architectural design and theory, including master classes and selective research, with professional practice, advanced liberal education courses, and interdisciplinary studies. A wide range of architecture elective courses is offered. Outstanding faculty, including visiting professors in master class studios, offer a rich variety of courses.

The Master of Architecture student has the opportunity to specialize in an area of professional interest by selecting an area of concentration. Additional courses are not required when pursuing a concentration. Students must select one of the following areas of concentration:

- Architectural Design and Practice
- Critical Studies in Architecture
- Sustainable Architecture
- Urban Design

The Master of Architecture professional degree program is open to highly qualified graduates of college/university architectural programs who meet all admission requirements. Students who work while earning the Master of Architecture degree should plan to distribute course work over two to four years. There is also a Master of Architecture 4+ track (described later in this section) open to students who hold a baccalaureate degree in a field other than architecture.

The requirements for the Master of Architecture degree are supplemented annually by an Addendum to the *Graduate Catalog* provided to each accepted graduate student.

MArch ADMISSIONS REQUIREMENTS

Students are eligible to apply for this program if they are graduates of a recognized baccalaureate degree program in architecture. Admission to the Master of Architecture degree program as a regular student requires:

1. Submission of the Application for Graduate Admission;
2. Official transcripts of all completed college work;
3. Minimum undergraduate GPA of 3.0;
4. A resume, including experience and extracurricular activities;
5. Three letters of recommendation, including one from a practicing architect and one from a faculty member employed by a college or university school of architecture who is familiar with the candidate's professional promise;
6. A portfolio for review by the Graduate Admissions Committee of the College of Architecture and Design to further demonstrate the candidate's potential for success.

MArch TRANSFER PROCEDURE

Students who are currently enrolled in an accredited graduate program in architecture may be accepted into the Master of Architecture program provided they meet all admissions requirements. Credit for courses taken in an accredited graduate program will be reviewed for their acceptability as substitutes for required courses in the Lawrence Tech Master of Architecture degree program. A request that such courses be considered must be made at the time of the student's application.

Courses taken to meet undergraduate degree requirements may not be used for graduate credit. Normally, a maximum of six (6) credits for non-core, non-design courses will be allowed for transfer credit. A minimum GPA of 3.0 or better must have been achieved. The courses must have been completed within five (5) years of the application for admission. Exceptions to these guidelines require the approval of the assistant dean of graduate studies.

MARCh APPLICATION PROCEDURES

The deadline for *regular* admission to the Master of Architecture degree program is February 1. Applications for other admissions categories are accepted by the Office of Admissions throughout the year. Formal acceptance into the program normally occurs during early March or July.

The deadline for early admission to the Master of Architecture degree program is November 1. Applicants accepted as part of the early admissions process may begin their graduate studies in January but may take only graduate elective courses.

The following guidelines have been established by the Graduate Admissions Committee of the College of Architecture and Design to facilitate and expedite the admissions process:

Regular Admission – All candidates for admission to the Master of Architecture degree program require the approval of the Graduate Admissions Committee. Regular admission is available only to students who meet all College of Architecture and Design program requirements.

Conditional Admission – There are two categories of conditional admission:

1. Conditional admission may be granted to qualified Lawrence Tech undergraduate students, who have applied to the Master of Architecture degree program, who have a 3.0 GPA or higher, and who will complete all requirements for the Bachelor of Science in Architecture degree no later than the summer semester prior to the academic year in which they would enter the graduate program. Students wishing to enroll in graduate electives during their senior year must consult with the assistant dean of graduate studies no later than four weeks prior to the scheduled normal registration period. All graduate courses taken under conditional admission must be electives and require approval of the assistant dean of graduate studies. Courses are limited to no more than six credits. Professional degree or graduate elective courses taken to meet undergraduate degree requirements may not be used to meet professional degree or graduate program requirements.
2. Conditional admission may also be granted to students with a GPA lower than 3.0 but higher than 2.75 or applicants whose portfolio and references are not of the highest standard. The conditions of the admission will be clearly stated to the applicant at the time of notification of conditional acceptance into the program. Conditional admission requires the approval of the dean of the College of Architecture and Design and is established as a result of the formal review process.

Provisional Graduate Standing – An applicant may enroll as a provisional student whether or not there is the intent to apply or reapply to the graduate degree program. This status does not require formal acceptance from the Graduate Admissions Committee. It does require permission from the assistant dean of graduate studies or the dean of the College. A limit of six (6) credit hours of elective graduate courses may be taken over one academic year. Enrollment in classes does not guarantee admittance to the graduate

degree program. A request may be made to the dean for course transfer once the student is accepted to the graduate degree program by the Graduate Admissions Committee.

MArch CONCENTRATIONS

All students pursuing a Master of Architecture degree must select one of the following concentrations: Architectural Design and Practice; Critical Studies in Architecture; Sustainable Architecture; or Urban Design. All four concentrations include seven core courses (18 credits):

- ARC 5012 Research Methods
- ARC 5422 Environmental Issues
- ARC 5623 Current Issues in Architecture
- ARC 5643 Design Theory
- ARC 5913 Professional Practice 1
- ARC 5922 Professional Practice 2
- ARC 6103 Master Class

Architectural Design and Practice Concentration

The Architectural Design and Practice concentration is intended for students who desire a focused study of architectural design and the theories and practices that are integral to the profession of architecture. Through the required Master Class and either a design studio sequence or a thesis option, students will refine design skills, while incorporating theoretical perspectives. Other required and elective courses allow students to gain broader knowledge and skills associated with contemporary architectural practice.

Students who elect the studio-based option will focus on an architectural design project under the guidance of a faculty advisor, with advice, criticism, and evaluation by a team of reviewers comprising practitioners and faculty.

Students who elect the research-based option will be required to form a thesis committee chaired by a full-time member of the graduate faculty. Two other committee members must be selected with the approval of the thesis chair. At least one of these members must be on the full-time or adjunct faculty at Lawrence Tech. The third member may come from the profession. The composition of all thesis committees must be approved by the assistant dean of graduate studies and the dean.

Students in this concentration may also enroll concurrently in the 15-credit-hour, post-professional Architectural Management certificate program (see description later in this section).

Critical Studies in Architecture Concentration

The Critical Studies in Architecture concentration is focused on the pursuit of critical investigations and architectural research. The program includes both conventional academic research and architectural research. Academic research relies on referencing primary and secondary texts or statistically based studies. Architectural research operates within the discourse of architecture, addressing issues and ideas intrinsic to the discipline.

This approach is grounded in a theoretical position and involves experimentation, testing, and risk within the discourse of architecture.

A two-course thesis is required. Students will be required to form a thesis committee chaired by a full-time member of the graduate faculty. Two other committee members must be selected with the approval of the thesis chair. At least one of these members must be on the full-time or adjunct faculty at Lawrence Tech. The third member may come from the profession. The composition of all thesis committees must be approved by the assistant dean of graduate studies and the dean.

Students in this concentration may also enroll concurrently in the 14-credit-hour, post-professional Critical Studies in Architecture certificate program (see description later in this section).

Sustainable Architecture Concentration

The purpose of the concentration in Sustainable Architecture is to develop a rigorous professional knowledge base which recognizes the value of interdisciplinary studies related to the design of sustainable environments. The focus is on advanced applications of ecological literacy stressing the importance of renewable resources, natural systems, and alternative energy in environmentally responsive design practice.

Students may elect a studio-based option that occurs in a traditional design studio setting focusing on a sustainable design project. An additional studio is required and may be one of the two Urban Design studios or a studio focused on a current project on campus. Students who elect the research-based option will be required to form a thesis committee chaired by a full-time member of the graduate faculty. Two other committee members must be selected with the approval of the thesis chair. At least one of these members must be on the full-time or adjunct faculty at Lawrence Tech. The third member may come from the profession. The composition of all thesis committees must be approved by the assistant dean of graduate studies and the dean.

Students in this concentration may also enroll concurrently in the 12-credit-hour, post-professional Sustainable Architecture certificate program (see description later in this section).

Urban Design Concentration

The Urban Design concentration offers two options, a studio sequence or a thesis. Under the first option, students take two Urban Studio courses that focus on planning and design at the city level as well as at that of the district, block, or street. The second option is a two-course thesis that involves applied research on an urban topic. Students electing this option will be required to form a thesis committee chaired by a full-time member of the graduate faculty. Two other committee members must be selected with the approval of the thesis chair. At least one of these members must be on the full-time or adjunct faculty at Lawrence Tech. The third member may come from the profession. The composition of all thesis committees must be approved by the assistant dean of graduate studies and the dean.

Students in this concentration may also enroll concurrently in the 12-credit-hour Urban Design certificate program.

MARCH CURRICULUM: Architectural Design and Practice Concentration

TOTAL SEMESTER CREDIT HOURS: 36 (in addition to an acceptable undergraduate degree in architecture)

SUMMER SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ARC 6103	Master Class (m)	3
ARC 5623	Current Issues in Architecture (m)	3
ARC 5012	Research Methods (m)	2

FALL SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 5422	Envir Issues (m)	2
ARC 5814 or	Advanced Design Studio 1 or	4
ARC 6514	Thesis 1 (m)	
ARC 5913	Prof Pract 1 (m)	3
ARC 5643	Design Theory (m)	3

SPRING SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 5824 or	Advanced Design Studio 2 or	4
ARC 6524	Thesis 2 (m)	
ARC 5922	Prof Pract 2 (m)	2
ARC 5942	Project Management	2
ARC 5xxx	Arch Design & Practice Elective	2

SUMMER SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 6832 or	Arch Des and Prac Studio Doc or	2
ARC 6112	Thesis Praxis (m)	
ARC 5xxx	Arch Des and Prac Elective	2
Non Arch Elective	Non Architecture Elective	2

Note: Core courses (m) available only to fully matriculated Master of Architecture students.

Architectural Design and Practice Electives:

ARC 5722	Real Estate Law
ARC 5732	Real Estate Practice
ARC 5952	Management of Construction
ARC 5962	Law for Architects
ARC 5992	Cost Management in the Built Environment
ARC 6853	Research in Practice Management (required if research thesis)
ARC 6912	Practice Management
ARC 6881	Independent Study (as approved)

COM 6103	Managerial Communication
HRM 6023	Human Resource Management
MGT 5032	Legal Environment
MGT 6013	Leadership Management
MGT 6043	Law, Ethics, and Business in Society
OPM 6153	Entrepreneurship and Venture Management
OPM 6013	Operations Management
MIS 6013	Management Information Systems
EME 6403	Quality Control
EME 7613	Technology Management

Note: Alternative courses may be substituted in consultation with advisor.

MARCh CURRICULUM: Critical Studies in Architecture Concentration

TOTAL SEMESTER CREDIT HOURS: 36 (in addition to an acceptable undergraduate degree in architecture)

SUMMER SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 6103	Master Class (m)	3
ARC 5623	Current Issues in Architecture (m)	3
ARC 5012	Research Methods (m)	2

FALL SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs</i>
ARC 5643	Design Theory (m)	3
ARC 6514	Thesis 1 (m)	4
ARC 5913	Prof Pract 1 (m)	3
ARC 5422	Environmental Issues (m)	2

SPRING SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ARC 6524	Thesis 2 (m)	4
ARC 5922	Prof Pract 2 (m)	2
ARC 5632	Architectural Theory	2
ARC 5xxx	Critical Studies Elective	2

SUMMER SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs</i>
ARC 6112	Thesis Praxis (m)	2
ARC 5xxx	Critical Studies Elective	2
Non Arch Elective	Non-Architecture Elective	2

Note: Core courses (m) available only to fully matriculated Master of Architecture students.

Critical Studies in Architecture Electives

ARC 5632	Architectural Theory
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ARC 5642	Advanced Study in Architectural History
ARC 5782	Urban Theory
ARC 5652	Applied Criticism
ARC 5662	Architectural Theory and Practice
ARC 5612	Form and Meaning
ARC 6632	Advanced Study in Architectural Theory

MArch CURRICULUM: Sustainable Architecture Concentration

TOTAL SEMESTER CREDIT HOURS: 36 (in addition to an acceptable undergraduate degree in architecture)

SUMMER SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ARC 6103	Master Class (m)	3
ARC 5623	Current Issues in Architecture (m)	3
ARC 5012	Research Methods (m)	2

FALL SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ARC 5643	Design Theory (m)	3
ARC 5594 or	Sustainable Architecture Studio (m) or	4
ARC 6514	Thesis 1 (m)	
ARC 5913	Prof Pract 1 (m)	3
ARC 5422	Environmental Issues (m)	2

SPRING SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ARC 5xx4 or	Studio or	4
ARC 6524	Thesis 2 (m)	
ARC 5922	Prof Pract 2 (m)	2
Non Arch Elective*	Approved Non-Architecture Elective*	2
ARC 5xxx**	Sustainability Elective**	2

SUMMER SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 6532 or	Comprehensive Sustainability Exam 2 or	2
ARC 6112	Thesis Praxis	
ARC 5xxx	Sustainability Elective	2
ARC 5992 or	Cost Mgt in Built Environment or	2
ARC 5952	Mgmt for Construction	

Note: Core courses (m) available only to fully matriculated Master of Architecture students.

***Approved Non-Architecture Electives**

LLT 8012	Literature of the Built Environment
SSC 8012	Social Responsibility and Community Action

****Sustainable Architecture Electives**

ARC 5832	Historic Preservation
ARC 6833	Research Preservation Existing Structures
ARC 5592	Sustainable Architecture and Building Systems
ARC 5582	LEED Standards and Evaluation
ARC 5432	Energy Management
ARC 5572	Vital Signs

MArch CURRICULUM: Urban Design Concentration

TOTAL SEMESTER CREDIT HOURS: 36 (in addition to an acceptable undergraduate degree in architecture)

SUMMER SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 6103	Master Class (m)	3
ARC 5623	Current Issues in Architecture (m)	3
ARC 5012	Research Methods (m)	2

FALL SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 5643	Design Theory (m)	3
ARC 5714 or	Urban Studio I (m) or	4
ARC 6514	Thesis 1 (m)	
ARC 5913	Prof Pract 1 (m)	3
ARC 5422	Environmental Issues (m)	2

SPRING SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 5724 or	Urban Studio 2 (m) or	4
ARC 6524	Thesis 2 (m)	
ARC 5922	Prof Pract 2 (m)	2
ARC 5782	Urban Theory	2
Non Arch Elective	Non Architecture Elective	2

SUMMER SEMESTER

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ARC 6732 or	Comprehensive Urban Exam or	2
ARC 6112	Thesis Praxis	
ARC 5xxxx	Arch Electives	4

Note: Core courses (m) available only to fully matriculated Master of Architecture students.

Urban Design Electives

ARC 5742	Urban Design Methods
ARC 5752	Quantitative Methods in Urban Design
ARC 5762	Urban Design Policy and Implementation

ARC 5772
ARC 6792

Case Studies in Urban Design
Urban Design Practicum

MASTER OF ARCHITECTURE 4+ TRACK

The Master of Architecture 4+ degree program is for students who have a baccalaureate degree in a field other than architecture but would like to pursue a Master of Architecture degree. Applicants interested in this option must have a GPA of 3.0 or higher.

The requirements for the Master of Architecture 4+ degree are supplemented annually by the Addendum to the *Graduate Catalog* provided to each accepted student.

For more information, contact the assistant dean of graduate studies.

MASTER OF ARCHITECTURE POST-PROFESSIONAL DEGREE

For more information on this program, contact the assistant dean of graduate studies.

GRADUATE CERTIFICATES

Each of the curricular concentrations in the Master of Architecture degree program has an associated certificate available. Students enrolled in the Master of Architecture program may continue their studies at Lawrence Tech and obtain a certificate in one of the four areas. People who hold at least a bachelor's degree may also obtain a graduate certificate in architectural studies.

CERTIFICATE IN ARCHITECTURAL MANAGEMENT

The Architectural Management certificate is a 15-credit-hour, post-professional program. It is available to students who are concurrently enrolled in the graduate programs in architecture or interior design at Lawrence Tech, as well as practicing design professionals. The program includes courses taught by the College of Architecture and Design and the College of Management. The intent of this certificate program is to provide a concentrated course of study and a recognized credential for those who aspire to project and/or firm management in the design professions.

Prerequisites or co-requisites for enrollment in this program include: ARC 5913, Professional Practice 1; ARC 5922, Professional Practice 2; and ARC 5942, Project Management. Equivalent courses taken at other institutions or a professional license (NCARB exam) in architecture may be substituted for the prerequisites with the approval of the assistant dean of graduate studies. A student may apply up to six (6) credit hours to this certificate program while concurrently enrolled in the Architectural Design and Practice graduate option. This certificate is available online.

Architectural Management Certificate Courses:

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
HRM 6023	Human Resource Management	3
HRM 5023	Leading Organizational Change	3
MGT 7123	Topics in Management: Accounting/Finance	3

ARC 5962	Construction Management	2
ARC 6912	Practice Management	2
Arch Elective	Architectural Design and Practice Elective	2

CERTIFICATE IN CRITICAL STUDIES IN ARCHITECTURE

The 14-credit-hour certificate in Critical Studies in Architecture is a concentrated program of study beyond the first professional degree (Master of Architecture). The focus of this certificate is to pursue research and investigation in architecture both as a discipline and a practice, with stress on contemporary issues of architectural design.

Certificate in Critical Studies in Architecture Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 5632	Architectural Theory	2
ARC 5642	Advanced Study in Architectural History	2
ARC 5782	Urban Theory	2
ARC 5652	Applied Criticism	2
ARC 5662	Architectural Theory and Practice	2
ARC 5612	Form and Meaning	2
ARC 6632	Advanced Study in Architectural Theory	2

CERTIFICATE IN SUSTAINABLE ARCHITECTURE

This 12-credit-hour certificate program focuses on current issues in sustainable architecture. The focus is on advanced applications of ecological literacy and stresses the importance of renewable resources, natural systems, and alternative energy in environmentally responsive design practice. Up to six (6) credits can be double counted with the core Master of Architecture degree. The program places primary emphasis on the studio setting as an opportunity for students to synthesize and apply knowledge obtained in other program courses.

Certificate in Sustainable Architecture Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ARC 5422	Environmental Issues	2
ARC 5572	Vital Signs	2
Approved courses	Approved courses in Sustainable, Alternative Energy or Ecology-based studies	8

CERTIFICATE IN URBAN DESIGN

The 12-credit-hour Urban Design certificate curriculum allows students to concentrate their study and research in urban design while they fulfill requirements for the degree of Master of Architecture. The certificate program seeks to provide the fundamental knowledge and critical thinking skills required to design urban and suburban environments and emphasizes the studio setting as an opportunity for students to apply knowledge obtained in other program courses. The focus is to prepare students to begin work as design professionals and work with other professionals in designing, regulating, and/or managing the development of extensive environments.

Certificate in Urban Design Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs</i>
ARC 5732	Urban Theory	2
ARC 5742	Urban Design Methods	2
ARC 5752	Quantitative Methods in Urban Design	2
ARC 5762	Urban Design Policy and Implementation	2
ARC 5772	Case Studies in Urban Design	2
ARC 6792	Urban Design Practicum	2

MASTER OF INTERIOR DESIGN (MID)

The Master of Interior Design (MID) focuses on theory, professional issues, and current technology to provide a program aimed at people who are interested in expanding or updating their knowledge of the field. The program has two tracks. The 37-credit-hour curriculum is for people with undergraduate degrees in interior design or interior architecture. A 4+ track is available to people who hold at least a bachelor's degree in another discipline and who would like to change careers. This 82-credit-hour curriculum combines the content of the undergraduate professional courses with the graduate courses to also result in a Master of Interior Design.

The program has a core in research, theory, issues, and design application and allows for independent exploration of topics. The final course in the program is the Master Class.

MID ADMISSIONS REQUIREMENTS

Students are eligible to apply for the 37-credit-hour Master of Interior Design program if they are graduates of a recognized baccalaureate degree program in interior design. Students holding a bachelor's degree in another discipline are eligible to apply for the 82-credit-hour 4+ track program. Admission to the Master of Interior Design program as a regular student requires:

1. Submission of the Application for Graduate Admission;
2. Official transcripts of all completed college work;
3. Minimum undergraduate GPA of 2.7;
4. A resume, including experience and extracurricular activities;
5. Three letters of recommendation, including one from a practicing interior designer and one from a faculty member employed by a college or university who is familiar with the candidate's professional promise.

6. A portfolio for review by the Graduate Admissions Committee of the College of Architecture and Design to further demonstrate the candidate's potential for success.

MID TRANSFER PROCEDURE

Students who are currently enrolled in a graduate program in interior design may be accepted into the Master of Interior Design program on the basis that they meet all admissions requirements. Credit for courses taken in a graduate program will be reviewed for their acceptability as substitutes for required courses in the Lawrence Tech Master of Interior Design program. A request that such courses be considered must be made at the time of application.

Courses taken to meet undergraduate degree requirements may not be used for graduate credit. Normally, a maximum of six (6) credits for non-core, non-design courses will be allowed for transfer credit. A minimum GPA of 3.0 or better must have been achieved. The courses must have been completed within five (5) years of the application for admission. Exceptions to these guidelines require the approval of the assistant dean of graduate studies.

MID APPLICATION PROCEDURES

The deadline for *regular* admission to the Master of Interior Design program is February 1. Applications for other admissions categories are accepted by the Office of Admissions throughout the year. Formal acceptance into the program normally occurs during March.

The following guidelines have been established by the Graduate Admissions Committee of the College of Architecture and Design to facilitate and expedite the admissions process:

Regular Admission – All candidates for admission to the Master of Interior Design program require the approval of the Graduate Admissions Committee. Regular admission is available only to students who meet all College of Architecture and Design program requirements.

Conditional Admission – There are two categories of conditional admission:

1. Conditional admission may be granted to qualified Lawrence Tech undergraduate students who have applied to the Master of Interior Design program and who will complete all requirements for the Bachelor of Interior Architecture degree no later than the summer semester prior to the academic year in which they would enter the graduate program. Students wishing to enroll in graduate electives during their senior year must consult with the assistant dean of graduate studies no later than four weeks prior to the scheduled normal registration period. All graduate courses taken under conditional admission must be electives and require approval of the assistant dean of graduate studies. Courses are limited to no more than six credits. Professional degree or graduate elective courses taken to meet undergraduate degree requirements may not be used to meet professional degree or graduate program requirements.

2. Conditional admission may also be granted to students with a GPA lower than 2.7 but higher than 2.5 or applicants whose portfolio and references are not of the highest standard. The conditions of the admission will be clearly stated to the applicant at the time of notification of conditional acceptance into the program. Conditional admission requires the approval of the Dean of the College of Architecture and Design and is established as a result of the formal review process.

Provisional Graduate Standing – An applicant may enroll as a provisional student whether or not there is the intent to apply or reapply to the graduate degree program. This status does not require formal acceptance from the Graduate Admissions Committee. It does require permission from the graduate administrator or dean of the college. A limit of 6 credit hours over one academic year of elective graduate courses may be taken. Enrollment in classes does not guarantee admittance to the graduate degree programs. A request may be made to the dean for course transfer once the student is accepted to the graduate degree program by the Graduate Admissions Committee.

MID CURRICULUM

TOTAL SEMESTER CREDIT HOURS: 37 (in addition to an acceptable undergraduate degree in interior design or interior architecture)

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs</i>
ARC 5012	Research Methods	2
ARI 5113	Interior Architecture Graduate Studio	3
ARC 5643	Design Theory	3
ARI 5622	Current Issues in Interior Design	2
ARI 5873	Advanced Interior Architecture	3
ARI 5143	Lighting Design and Research	3
ARC 5222	Architectural Graphics	3
ARC 6903	Educational Praxis	3
ARC 6872	Research in Interior Architecture	2
ARC 6103	Master Class	4

In addition to the above courses, nine (9) credit hours of elective courses are required.

MID 4+ TRACK CURRICULUM

TOTAL SEMESTER CREDIT HOURS: 82

The 4+ track is for people who hold at least a bachelor’s degree in another discipline.

FIRST YEAR

<i>Course Number</i>	<i>Subject</i>	<i>Cr.Hrs.</i>
ART 1115	Design Elements and Principles	5
ART 1225	Visualization Techniques	5
ARC 2813	Electronic Methodologies I	3
ARC 3613	History of the Designed Environment 1	3
ARC 3623	History of the Designed Environment 2	3
ARI 4223	Interior Design Practice	3
ARI 4123	Environmental Psychology	3

ARI 3122	Materials and Components of Interior Design	2
<i>Total Credit Hours</i>		27

SECOND YEAR

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ARI 5113	Interior Architecture Graduate Studio	3
ARI 3113	Furniture and Millwork	3
ARC 2313	Building Systems 1	3
ARC 2323	Building Systems 2	3
ARC 3413	Environmental Systems 1	3
ARC 4113	History of Interiors and Furniture	3
ARI 3124	Interior Architecture 2	4
ART 2523	Graphic Design 1	3
<i>Total Credit Hours</i>		25

THIRD YEAR

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ARC 5012	Research Methods	2
ARI 4143	Advanced Lighting	3
ARC 4234	Allied Studio: Interiors	4
ARC 5643	Design Theory	2
ARI 5622	Current Issues in Interior Design	2
ARI 5873	Advanced Interior Architecture	3
ARI 5143	Lighting Design and Research	3
ARC 5223	Architectural Graphics	3
ARC 6903	Educational Praxis	3
ARC 6872	Research in Interior Architecture	2
ARC 6103	Master Class	3
<i>Total Credit Hours</i>		30

College of Arts and Sciences

Dean

Hsiao-Ping Moore
S101, 248.204.3500

Associate Dean

Glen A. Bauer
S101, 248.204.3500

Program Advisors

Master of Educational Technology and Master of Science Education:

Valentina Tobos, S207A, 248.204.3617

Master of Science in Computer Science:

Ghassan M. Azar, S116B, 248.204.3659

Master of Science in Technical and Professional Communication:

Corinne Stavish, S209A, 248.204.3656

Professors

William C. Arlinghaus
Charles M. Chambers
Jerry L. Crist
Walter K. Dean
Thomas A. Lackey, emeritus
Richard E. Marburger, emeritus
Richard E. Michel, emeritus
Daniel W. Mioduszewski, emeritus
Gonzalo Munévar
James S. Rodgers
Anthony F. Sky
Maria J. Vaz

Associate Professors

David E. Bindschadler
Chan-Jin Chung
Harold Hotelling
Pamela Lowry
William G. Madden
Marilyn V. Rands
Scott D. Schneider
Betty L. Stover
Melinda Weinstein

Assistant Professors

Jon J. Brewster
Christopher Cartwright
Maryam Roshanaei
Valentina Tobos

Guang-Chong Zhu

College Professors

Ghassan M. Azar
Corinne Stavish
Nicole Villeneuve

Senior Lecturers

LaVetta Appleby
Kevin A. Kelch

Adjunct Faculty

Additional lecturers are assigned to selected courses and sections based on their specialties and expertise and are listed in the faculty roster.

Faculty Council

Sonia Henckel, Mathematics and Computer Science
Phil Vogt, Humanities, Social Sciences, and Communication
Scott D. Schneider and Marilyn V. Rands, Natural Sciences

Educational Technology Program Committee

Pamela Lowry
director, Veraldi Instructional Technology Resource Center, and associate
director, Educational Technology Program, Lawrence Tech
Gale McFredries
certification officer, Marygrove College
Anthony F. Sky
chairman, Department of Natural Sciences, Lawrence Tech
Valentina Tobos
director, Educational Technology Program, Lawrence Tech
Chenfeng Zhang
director, Educational Technology Program, Marygrove College

Master of Science Education Advisory Council

Helen Armour
teacher, Detroit Public Schools
David Bydlowski
science consultant, Wayne County RESA
Juanita Clay Chambers
director of mathematics and science, Detroit Public Schools
James Cook
senior advisor, SAE-Vision 2000
Thelma Gardner Evans
elementary science supervisor, Detroit Public Schools
Pam Jones
teacher, Berkshire Middle School
Ronald Kagan
director, Detroit Zoological Institute
Jaime Manville

teacher, Redford Union

Master of Science in Computer Science Advisory Council

Brian C. Baker

engineering consultant, IBM Corporation

James Baker

consultant, EDS

Peter Bilello

senior consultant, CIMdata, Inc.

Gene R. Crombez

manager of product and process systems, Chrysler LLC

Gregory Eskridge, manager of professional services practice – America’s graphics group, Silicon Graphics, Inc.

Michael Herweyer

basis consultant, SAP America

Surendra Khambete

information technology manager, 3M Automotive

Joseph Landman

systems engineer, Silicon Graphics

Nicholas Smither

director, product development systems, Product Development Center

Marlin Wilson-Threatt

training specialist/instructional designer, Compuware Corporation

Technical and Professional Communication Advisory Board

Dino Bascovic

president and managing consultant, 36 Hours, LLC

Laurie Brown

publications team leader, General Motors Saturn Division

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Sandy Ennis

director, employee communication, DTE Energy

Christopher Juillet

attorney and counselor at law

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director, communication, General Dynamics Land Systems

Gary A. Kecskes

owner/designer, Architectural Papergraphix

Kevin Kelch

senior lecturer, technical and professional communication, Lawrence Tech

Pam Lowry

director, Veraldi Instructional Technology Resource Center, Lawrence Tech

Mary Ellen McLeod

manager, editorial services, Blue Cross Blue Shield

Gonzalo Munévar
chair and professor, Humanities, Social Sciences, and Communication,
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Sally C. Paul
manager, technical communication, Creative Solutions

Toni Pollock
account manager, Jawood Management Associates

David B. Robbins
product information specialist, development services organization, Unisys
Corporation

Susan Kesling Rogers
APR, corporate communications specialist, Society of Manufacturing Engineers

Michele S. Ryckebusch
manager, local communications, Chrysler LLC

Betty Stover
chair, Humanities, Social Sciences, and Communication, Lawrence Tech

Corinne Stavish
director and college professor, Technical and Professional Communication
Program, Lawrence Tech

Lisa Veasey, professor, Scientific and Technical Communication, Washtenaw Community
College

Linda Wareck, instructional technologist, Veraldi Instructional Technology Resource
Center, Lawrence Tech

Kent Woiak, supervisor, service engineering team, Cadillac Division, General Motors
Corporation

DEGREE PROGRAMS OFFERED

Lawrence Tech's College of Arts and Sciences offers these graduate programs:

- Master of Educational Technology
- Master of Science Education
- Master of Science in Computer Science
- Master of Science in Technical and Professional Communication

PROGRAM POLICIES

Grades awarded in graduate courses are limited to A, A-, B+, B, B-, C+, C, and F. At most one passing grade below B- may be counted toward a graduate degree. No more than one required course may be repeated. If a course is repeated, the student's GPA will reflect both grades earned and is not subject to recomputation. Courses numbered 5000 and above require a minimum grade of B- in each prerequisite course.

MASTER OF EDUCATIONAL TECHNOLOGY (MET)

The Master of Educational Technology (MET) program seeks to prepare teachers and administrators with information age skills and knowledge they need to become technologically competent professionals who can function as classroom teachers as well as school and system-level technology specialists.

The program's course work is aligned with the Michigan Technology Content and ISTE/NCATE Technology Standards. These standards set the bar not only for the teaching of educational technologies but also for demonstrating how these technologies enhance the processes of teaching and learning as well as personnel productivity.

The Master of Educational Technology program is a collaboration between Lawrence Tech and Marygrove College, a leader in the preparation of education professionals. Some core and elective courses are offered by Marygrove College.

Candidates may pursue the Master of Educational Technology degree with a Robotics concentration (see below for requirements).

MET PROGRAM OBJECTIVES

The program is designed as a professional, practice-oriented program of graduate study whose goal is to prepare students for careers in leadership roles in the field of educational technology.

Depending on the emphasis of their studies, students will take courses that focus on providing the skills necessary to:

- Design, produce, and evaluate the various kinds of educational technology techniques required by diverse student, parent, and administrative audiences.
- Use language, visual, analytical, and computer skills to create and enhance the teaching process.
- Apply emerging electronic technologies and other media to the creation of educational media.
- Apply research methodologies to advance knowledge and practice in the field of educational technology.
- Organize instructional teams for problem solving and decision making in the process of adopting educational technology applications that support learning.
- Make presentations to student, parent, and administrative audiences using appropriate technologies.
- Create, implement, and train others in the design of electronic documents, webpages, and multimedia.
- Obtain the Michigan Department of Education endorsement in educational technology (NP endorsement – 18 credit hours).

MET ADMISSIONS REQUIREMENTS

Admission to the MET program requires:

1. A baccalaureate degree (GPA of at least 3.0; if GPA is lower, please contact the program director);
2. An official transcript of all completed college work;
3. A resume, including experience and extracurricular activities;
4. A list of three references;
5. An admissions interview with the program director;

6. A copy of the provisional or professional teaching certificate if endorsement is sought.

MET TRANSFER CREDIT

No more than six (6) graduate semester credit hours will be transferred (pending approval of the program director and grade in the course).

MET DEGREE REQUIREMENTS

All students must have a plan of study, arranged in consultation with an advisor and approved by the program director.

Candidates for the degree must complete 30 credit hours from the following list of courses, with 21 of these credits from the core curriculum, which includes the capstone course, MET 6303. All degree-seeking students must take MET 6203, Computer Applications for Education. Candidates who would like to obtain a Master of Education Technology degree with a Robotics concentration must take the two robotics-related electives and select a final project for MET 6303 that is related to robotics (for more information, contact the program director).

Core Courses

<i>Course Number</i>	<i>Cr. Hrs</i>
MET 6403 (EDT 640) Technology Tools for Teachers (Marygrove)	3
MET 6883 (EDT 688) Issues in Educational Technology (Marygrove)	3
MET 5733 (SED 573) Assistive Technology in Special Education (Marygrove)	3
MET 6203 Computer Applications for Education (Lawrence Tech)	3
MET 6213 Applied Instructional Technology (Lawrence Tech)	3
MET 6223 Multimedia Development I (Lawrence Tech)	3

Elective Courses (Lawrence Technological University)

<i>Course Number</i>	<i>Cr. Hrs.</i>
MET 6113 Contemporary Pedagogies in Education	3
MET 6233 Multimedia Development 2	3
MET 6243 Distance Learning	3
MET 699x Directed Study in Educational Technology	3
MET 5623 Autonomous Robotics for Education 1	3
MET 6623 Autonomous Robotics for Education 2	3

Capstone Course

MET 6303 Project Seminar (Lawrence Tech)	3
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Additional educational tracks (degree or non-degree) are available. Please contact the program director at metdir@ltu.edu for information.

EDUCATIONAL TECHNOLOGY ENDORSEMENT (NP)

The Master of Educational Technology program has been approved by the Michigan Department of Education to offer the NP certification to candidates who already have at

least a Michigan provisional teaching certificate and who are enrolled in the six core MET courses (18 credit hours). Application for the NP endorsement is processed by Marygrove College certification officers.

MASTER OF SCIENCE EDUCATION (MSE)

The Master of Science Education (MSE) program is designed for:

- All certified teachers who want to obtain science endorsement (DI – 36 credits)
- All educators who wish to strengthen competencies in the teaching of K-12 science;
- Educators who have provisional or professional certification and want to obtain additional endorsement or renew their certificates.

Instruction emphasizes students' active participation and interaction with the instructor and fellow students. Classes teach content while modeling the methods of teaching and learning that are used in K-12 science classrooms. Participants in the Master of Science Education program learn science content and concepts by means of experiences, discussion, and writing – the same processes by which their own students will be expected to learn.

Courses are offered on a teacher friendly schedule with short semesters and online meetings that limit the number of trips to Lawrence Tech. Summer classes are also available on a 10-week or 6-week schedule.

Some courses may be offered in conjunction with the Detroit Zoological Institute, the Cranbrook Institute of Science, or a Michigan teacher preparation institution.

MSE PROGRAM OBJECTIVES

The objectives of the Master of Science Education program are:

- To provide a broad base of scientific knowledge appropriate for K-12 school instruction, as well as techniques and tools that allow successful learning of scientific concepts. Courses combine science content and methods of teaching within an integrated learning experience.
- To provide scientific knowledge and updated teaching techniques (often immediately applicable in the classroom) that will help educators create a classroom environment where science is exciting, challenging, student-centered, and inquiry-driven.
- To provide certified teachers with the graduate educational experience needed to renew certifications or obtain endorsements.

MSE ADMISSIONS REQUIREMENTS

Admission to the MSE program requires:

1. A baccalaureate degree (GPA of at least 3.0; if GPA is lower, please contact the program director);

2. An official transcript of all completed college work;
3. A resume, including experience and extracurricular activities;
4. A list of three references;
5. An admissions interview with the program director;
6. A copy of the provisional or professional teaching certificate if endorsement is sought.

MSE TRANSFER CREDIT

Not more than nine (9) graduate semester credit hours will be transferred based on the applicant's GPA and the subject of the course – science, technology, or education (approval by the program director required).

MSE DEGREE REQUIREMENTS

All students must have a plan of study, arranged in consultation with an advisor and approved by the program director.

Candidates for the Master of Science Education degree (non-endorsement) must complete 30 credit hours from the following list of courses, with 21 of these credits from the core curriculum. All degree-seeking students must take SCE 6103, Introductory Seminar, as their first course and SCE 6303, capstone project.

Core Courses

<i>Course Number</i>	<i>Cr. Hrs.</i>
SCE 6103 Introductory Seminar	3
GLG 6143 Geosphere	3
or	
GLG 6243 Atmosphere, Weather, and Climate	3
PHY 6323 Astronomy	3
SCE 6303 Capstone Project	3
One life science course	3
One physics course	3
One chemistry course	3

Electives

<i>Course Number</i>	<i>Cr. Hrs.</i>
BIO 6173 Cells and Organisms	3
BIO 6273 Heredity and Evolution	3
BIO 6353 General Ecology	3
BOT 6163 Botany and Ecology of Plants	3
CHM 6153 Matter, Energy, and Their Changes	3
CHM 6253 Materials and Their Uses	3
GLG 6243 Atmosphere, Weather, and Climate	3
PHY 6123 Motion, Forces and Energy	3
PHY 6223 Electricity, Magnetism, and Waves	3
SCE 6213 Foundations of Science	3
PHY 6423 Science of Music	3

Please see the program director for requirements for the Master of Science Education with integrated science endorsement track (DI track – 36 credits).

MASTER OF SCIENCE IN COMPUTER SCIENCE (MSCS)

The Master of Science in Computer Science (MSCS) differs from traditional master's degree programs in that it emphasizes applied concepts and reinforces these concepts with laboratory exercises that focus on application. Examples are drawn from business and industry, finance, and scientific research.

The program has been designed so that students can select structured sequences of options to give them advanced training in selected fields of computer science. Eight areas of concentration are available:

- **Bioinformatics** – Combined use of mathematics, statistics, and computer science to analyze biological, biochemical, and biophysical data
- **Computer Graphics** – Theory and application of representing, displaying, and designing virtual objects and environments
- **Computer Security** – Network security and infrastructure, cryptography, intrusion detection and control, user authentication, data integrity, and disaster recovery
- **Data Base Systems** – Advanced training and experience in working with distributed data base systems and client/server models
- **Distributed Systems** – The theoretical underpinnings of distributed computing and practical implementations of LANS, WANS, internets, and intranets
- **Intelligent Systems** – Development of computational systems that exhibit abilities to recognize sensory inputs, adapt by learning, and facilitate appropriate actions (intelligent behavior) in complex and changing environments
- **Programming Languages** – The structure of computer programming languages, how they change, and the theoretical boundaries
- **Software Engineering** – The development methodology of programming and testing in large programming environments

Both the Bioinformatics and Computer Security concentrations require students to take more classes in their area of concentration. Students then apply their knowledge in two project courses.

MSCS PROGRAM OBJECTIVES

The program is designed to develop highly skilled professionals who have a thorough understanding of the theoretical concepts and practical uses of computer science. This applied degree program is intended draw students from three diverse populations:

- Recent college graduates with undergraduate degrees in computer science who wish to gain advanced knowledge and skill in the area of applied computing.
- Employed computer professionals seeking to further their technical competencies.

- College graduates with bachelor's degrees in non-computer areas seeking entry into the computer science field.

The market for those with computer science expertise is booming now and most likely will thrive in the future, giving rise to increased demand for technically competent leaders in a field that is essential for economic growth. Hands-on, applied classes reinforce theoretical concepts, and extensive experience in newly renovated computer science laboratories, as opposed to pencil-and-paper classroom work, is stressed.

MSCS ADMISSIONS REQUIREMENTS

1. A baccalaureate degree that includes one year of mathematics and one year of science;
2. An official transcript of all completed college work;
3. An overall undergraduate GPA of at least 3.0;
4. Completion of the following pre-core sequence of undergraduate courses* or their equivalencies:

<i>Subject</i>	<i>Cr. Hrs.</i>
Discrete Math	3
Data Structures	4
Computer Architecture and Assembly Programming	3
Operating Systems	3
Theory of Computation	3

*These pre-core courses may require additional prerequisite courses.

MSCS TRANSFER CREDIT

No more than six (6) graduate semester credit hours can be transferred into the program from another graduate program.

MSCS DEGREE REQUIREMENTS

Students must have a plan of study, arranged in consultation with an advisor and approved by the program director.

Candidates for the degree must successfully complete 30 graduate semester credit hours, including two concentrations and two capstone project courses. Most concentration selections allow for elective courses as part of a plan of study. Some courses from other departments may be used as electives. All course selections must be approved by the program director.

CONCENTRATIONS

Bioinformatics (includes Database Systems) (24 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 5303	Intro to Database Systems	3
MCS 5503	Intelligent Systems	3
MCS 5603	Introduction to Bioinformatics	3

MCS 5613	Genomics	3
MCS 6323	Distributed Database Systems	3
MCS 6613	Protein and DNA Sequence Analysis	3
MCS 6603	Statistical Methods	3
MCS 6623	Data Warehousing- Development, Implementation and Operation	3

Computer Graphics (6 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs</i>
MCS 5203	Intro to Computer Graphics	3
MCS 6223	Adv Topics in Computer Graphics Engineering	3

Computer Security (includes Distributed Computing) (24 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 5303	Database Systems	3
MCS xxx3	Intro to Computer Security	3
MCS 5703	Introduction to Distributed Computing	3
MCS 5813	Cryptography	3
MCS 6503	Security Audits	3
MCS 6323	Distributed Database Systems and Security	3
MCS 6723	Advanced Distributed Computing	3
MCS 6813	Network Cryptology	3

Database Systems (6 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 5303	Database Systems	3
MCS 6323	Adv Topics in Database Systems Distributed Database Systems	3

Distributed Systems (6 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 5703	Intro to Distributed Computing	3
MCS 6723	Adv. Topics in Distributed Computing	3

Intelligent Systems (6 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 5503	Intelligent Systems	3
MCS 6513	Adv Topics in Intelligent Systems	3

Programming Languages (6 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 5043	Programming Language Implementation	3
MCS 6043	Adv Topics in Programming Languages	3

Software Engineering (6 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
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MCS 5103	Software Engineering	3
MCS 6123	Adv Topics in Software Engineering	3

Capstone Project (6 credits)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 7013	Collaborative Research Project 1	3
MCS 7033	Collaborative Research Project 2	3

Electives

In addition to any of the above courses, the following courses can be taken as electives. Total credit hours in this category will range from 3 to 12 based on the number of bridge courses taken.

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 5013	Web Server Programming	3
MCS 5023	Java Programming	3
MCS 5033	Object Computing	3
MCS 5053	Computability	3
MCS 5083	Visual Programming	3
MCS 5213	Computational Geometry	3
MCS 5223	Computer Aided Geometric Design	3
MCS 5233	Introduction to Theory of Computation	3
MCS 5253	Operating Systems	3
MCS 5403	Robotics Programming	3
MCS 5523	Virtual Environments and Scientific Visualization	3
MCS 5993	Topics in Computer Science	3
MCS 6063	Foundations of Programming Languages	3
MCS 6143	Current Developments in Software Engineering	3
MCS 6343	Current Developments in Database Systems	3
MCS 6523	Expert Systems	3
MCS 6543	Current Developments in Intelligent Systems	3
MCS 6743	Current Developments in Distributed Computing	3
MCS 7513	Business Intelligence and Data Mining	3
MCS 7993	Advanced Topics in Computer Science	3

MASTER OF SCIENCE IN TECHNICAL AND PROFESSIONAL COMMUNICATION (MSTPC)

The Master of Science in Technical and Professional Communication (MSTPC) is designed as a professional, practice- and theory-oriented program of graduate study that prepares students for careers in leadership roles in the field of technical communication.

MSTPC PROGRAM OBJECTIVES

Depending on the emphasis of their course of study and professional interests, students will take courses that focus on providing the skills necessary to:

- Design, produce, and evaluate the various types of technical and professional communication required by diverse audiences.
- Use verbal, visual, analytical, and computer skills to create and enhance communication in professional environments.
- Apply major rhetorical theories of technical and professional discourse to a variety of communication environments.
- Apply emerging electronic technologies and other media to the creation of various publications and presentations.
- Gain insight into the current research methodologies applicable to the fields of technical and professional communication.
- Supervise publications, information design, and information management functions in organizations.
- Master presentation techniques that are adaptable to multiple audiences.
- Additionally, some students may wish to prepare for doctoral-level work in technical and professional communication to obtain academic, corporate leadership, or research positions.

MSTPC ADMISSIONS REQUIREMENTS

In addition to the policies and procedures described in the Academic Regulations section of this *Catalog*, admission to the Master of Science in Technical and Professional Communication requires:

1. A baccalaureate degree from an accredited college or university;
2. Official transcripts of all completed college work;
3. An overall undergraduate GPA of at least 3.0;
4. A resume that includes academic and professional experience;
5. One or more writing samples that demonstrate the applicant's skill in either technical or professional communication. Professional portfolios may also be submitted;
6. Three letters of recommendation, including one from either a professor or a corporate supervisor. The supervisory letter must be written by someone who has worked with the applicant in either an academic or corporate environment during the past three years and who is familiar with the applicant's professional promise;
7. An admissions interview with the program director or a designated faculty member

Applicants with a GPA of less than a 3.0 and those with undergraduate degrees in a field other than technical communication will be admitted on a conditional basis. Students accepted conditionally are evaluated for official graduate student status upon completion of nine (9) semester hours of graduate course work at Lawrence Tech.

MSTPC TRANSFER PROCEDURE

1. No more than six (6) graduate semester credit hours may be transferred, and these must be from an accredited MS, MA, or PhD program in communication.

2. A request for courses to be considered for transfer must be made in writing at the time of application.
3. A minimum grade of 3.0 must have been achieved in the transfer courses.
4. Courses must have been completed within five (5) years of the application for admission. In exceptional circumstances, and with the approval of the program director, the department chair, and the dean, additional credits may be earned based on professional experience that can be applied to a practicum project for COM 7203.

MSTPC REQUIREMENTS FOR CONTINUING MATRICULATION

In order to continue in the program, students must maintain a cumulative GPA of at least 3.0. A student whose GPA falls below 3.0 must have the approval of the program director to continue in the program.

MSTPC DEGREE REQUIREMENTS

Candidates for the Master of Science in Technical and Professional Communication degree must have completed the equivalent of 30 semester hours within the curriculum as defined in this *Graduate Catalog*, including 18 semester hours of core courses. Students must have a cumulative GPA of 3.0 in all courses applied toward the degree.

Required Courses (6 courses, totaling 18 semester hours):

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
COM 6103	Foundations of Technical Communication	3
COM 6443	Rhetoric of Technical Communication	3
COM 6453	Research Methods and Applications	3
COM 6473	Advanced Publication Design	3
COM 6553	Advanced Interpersonal Communication	3
COM 7203	Technical Communication Practicum	3

Electives (4 courses, totaling 12 semester hours):

COM 5963	Web Site Design
COM 6123	Professional Presentation Strategies
COM 6463	Team Problem Solving and Decision Making
COM 6483	Managing Organizational Communication
COM 6493	Communicating Across Cultures
COM 6543	Technical and Professional Editing
COM 6563	Advanced Nonverbal Communication
COM 6943	Online Communication
COM 6963	Multimedia Design and Analysis
COM 7103	Special Topics (examples include the following):
	Publication and Graphic Design Software Applications
	Medical Writing
	Proposal Writing
	Legal Writing
	Rhetorical Analysis and Presentation
	Advanced Business and Professional Communication

College of Engineering

Dean

Devdas Shetty
E99, 248.204.2500

Associate Dean

Lewis Frasch
E99, 248.204.2500

Program Directors:

Doctor of Engineering in Manufacturing Systems:

Khalil S. Taraman, E154, 248.204.2565

Master of Civil Engineering, Master of Construction Engineering Management, and
Master of Science in Civil Engineering:

Elin Jensen, E20, 248.204.2067

Master of Engineering Management:

Daw Al-Werfalli, E31, 248.204.2580

Master of Engineering in Manufacturing Systems:

Kingman Yee, E28B, 248.204.2582

Master of Science in Automotive Engineering:

Suresh C. Bansal, E33, 248.204.2563

Master of Science in Electrical and Computer Engineering:

Richard Johnston, E215C, 248.204.2534

Master of Science in Mechanical Engineering:

Badih Jawad, E40, 248.204.2572

Master of Science in Mechatronic Systems Engineering:

Vladimir Vantsevich, E43, 248.204.2577

Professors

Daw R. Al-Werfalli

H. Robert Farrah

Nabil Grace

Robert D. Hatch, emeritus

Badih Jawad

Richard R. Johnston

Harold Josephs

Richard S. Maslowski, emeritus

Sayed A. Nassar, emeritus

Alan L. Prasuhn, emeritus

Khalil S. Taraman, DIT Chair of Manufacturing Engineering

Vladimir Vantsevich

Lewis N. Walker

Associate Professors

Lisa M. Anneberg

Donald Carpenter

Clarence G. Chambers, emeritus

Michael J. Cloud
Vernon M. Fernandez
Robert Fletcher
Lewis Frasch
Nabil Hachem, emeritus
Stanley F. Harris
William B. Kolasa
Laura L. Lisiecki
Chris H. Riedel
Kingman E. Yee
Edmund Yuen

Assistant Professors

Kevin Collins
Andrew L. Gerhart
Elin Jensen
Hiroshan Hettiarachchi
Marianna Wilhelm

College Professors

Suresh C. Bansal
Suraji Bhonsle
Kenneth Cook
Greg Feierfeil

Adjunct Faculty

Additional lecturers are assigned to selected courses and sections based on their particular specialties and expertise and are listed in the faculty roster.

Engineering Faculty Council

Lisa Anneberg, chair
Suresh Bansal
Steve Bhonsle
Hiroshan Hettiarachchi
Badih Jawad
Richard R. Johnston

Civil Engineering Advisory Board

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project manager, Barton Malow
Mike Rogers
Oakland County Commissioner
David I. Ruby
principal, Ruby & Associates, PC
Ian Schonsheck
CEO, Schonsheck Inc.
Kirk T. Steudle, BSCE'87
director, Michigan Department of Transportation
Lami Taweel
president/CEO, TES Consultants, PC
Jodie M. Tedesco
assistant county engineer, Livingston County Road Commission
Ben Tiseo, Ar'78
president, NTH Consultants
John Tocco, CE'83
Tocco Construction Consulting
D. James Walker, Jr.
executive director, Great Lakes Fabricators & Erectors Assn.
W. Bernard White, CE'80
president, White Construction

Electrical and Computer Engineering Industrial Advisory Board

Dennis M. Bogden, EE'74
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Amy M. Garby, EE'93
HMI supervisor, Ford Motor Company
Joe Gagnier
staff engineer, Unisys Corporation

Grant R. Gerhart
senior research scientist (ST), TACOM, U.S. Army

Tom Livernois
senior engineering manager, Exponent@Failure Analysis Associates®

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engineering manager, TRW Automotive

Timothy Potochick, EE'81
senior specialist network hardware, Chrysler LLC

Anthony B. Will
analysis engineer, Controls Architecture Modeling, General Motors Corporation

Engineering Industrial Advisory Council

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Dean DeGalan, EE'74
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Jennifer Hitchcock
deputy associate director – mobility, TARDEC, U.S. Army

Larry Howell
executive director (retired), General Motors Corporation

Thomas S. Moore, EE'86
general manager, Liberty and Technology, Chrysler LLC

John G. Petty, ME'65
FOX program director, General Dynamics Corporation

Douglas Patton
senior vice president, Engineering Division, DENSO International America

Tom Stimson
vice president, Powertrain, GKN

William Surber
executive director, New Product Development, Magna Corporation

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William Vogel
client delivery executive, Electronic Data Systems

Jason Wang
president, Peter Basso Associates, Inc.

Entrepreneur Program Advisory Board

Eudora Adolph
CEO and business continuity director, Consilio Response Team

Michael DiSalvo
manufacturing director, North America Operations, Visteon Corporation

Jennifer Macks
project manager, Barton Malow

Thomas S. Moore, EE'86
general manager, Liberty and Technology, Chrysler LLC

Christophe Sevrain

CEO, CJPS Enterprises
Margie Simmons
president/CEO, Duce Simmons Associates
David T. Waller
CEO, Wallcom Industries

Mechanical Engineering Industrial Advisory Board

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director, Energy Partnerships and Services, Detroit Edison
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Gustav Olling
executive (retired), CAx Research & Development, DaimlerChrysler Corporation
Olaf Tessarzyk
Index Corporation
Dan Tyner
engineering project manager, Automotive Components Holding Corporation
Monir Kamal
retired, General Motors Corporation

Mechatronic Systems Engineering Program Industrial Advisory Board

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Jean Belanger
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Vyacheslav Birman
senior engineer, Siemens VDO Automotive Corporation
Matthew Busdiecker
principal engineer, Eaton Truck Technology Group
Man-Feng Chang
GM technical fellow and group manager, General Motors Corporation
Bruce Emaus
president, Vector CANtech, Inc.
Richard Gorski
director North American Sales, Aisin World Corp. of America
Mircea Gradu
chief engineer, Timken Automotive
Jack Hall
vice president for engineering, Johnson Controls
Davor Hrovat
corporate technical specialist, Ford Motor Company
Jim Hutter
marketing manager, Vector CANtech, Inc

John Janevic
senior director, Software Delivery and Marketing, MSC Software

R. William Kneifel II
development Labs Manager, KUKA Robotics Corp

Kevin Kott
president, dSPACE, Inc.

John Kubler
vice president, Corporate Development, Kistler Instrument Corporation

Pieter J. Mosterman
senior research scientist, The MathWorks, Inc

Liu Qiao
general manager/chief technologist, Toyota Engineering and Manufacturing

David Thomas
associate director, Intelligent Systems, RDECOM, U.S. Army,

Andreas Truckenbrodt
executive director, Hybrid Powertrain Programs, Chrysler LLC

Don Vincent
executive vice president, Robotic Industries Association

Jennifer Wahnschaff
quality manager, Siemens VDO Automotive Corporation

John Wilson
area sales manager, National Instruments

Jingsheng Yu
engineering manager, Robert Bosch Company

DEGREE PROGRAMS OFFERED

Lawrence Tech's College of Engineering offers these graduate programs:

- Doctor of Engineering in Manufacturing Systems
- Master of Civil Engineering
- Master of Construction Engineering Management
- Master of Engineering in Manufacturing Systems
- Master of Engineering Management
- Master of Science in Automotive Engineering
- Master of Science in Civil Engineering
- Master of Science in Electrical and Computer Engineering
- Master of Science in Mechanical Engineering
- Master of Science in Mechatronic Systems Engineering
- Certificate in Manufacturing Systems

DOCTOR OF ENGINEERING IN MANUFACTURING SYSTEMS (DEMS)

Lawrence Technological University's Doctor of Engineering in Manufacturing Systems (DEMS) program has been developed for engineers who are interested in acquiring a high level of technical competence in the field of manufacturing systems. Where once the master's degree was seen as the ultimate credential, an increasing number of industry leaders recognize the depth and breadth of competence afforded through preparation at the doctoral level.

Lawrence Tech's Doctor of Engineering in Manufacturing Systems program is unique in these aspects:

- All engineers accepted into this program work full-time in the Detroit metropolitan area – one of the leading and most technologically advanced manufacturing areas in the world;
- The program requires an internship similar to those found in the medical profession. The internships in industry are utilized to solve real manufacturing systems problems in manufacturing;
- Each engineer in the DEMS program has two advisors – an academic advisor who provides state-of-the-art knowledge about engineering principles and an industrial advisor who provides significant industrial experience and support.

DEMS ADMISSIONS REQUIREMENTS

Applicants must be engineering leaders who have the ability to identify society's needs and the creativity to solve problems economically.

The Doctor of Engineering in Manufacturing Systems is designed for engineers with a high level of technical competence. A Master of Engineering degree with a GPA of least 3.4 is required. All applicants must demonstrate strong potential for success based upon:

1. Transcripts of engineering studies;
2. Three letters of recommendation;
3. Resume;
4. Essay outlining applicant's goals as achieved through pursuit of the doctorate;
5. Personal interview.

For more information, contact the program director, 248.204.2565, or the Office of Admissions, 248.204.3160.

DEMS CURRICULUM

Applicants who hold a Bachelor of Engineering degree are required to complete between 84 and 94 credit hours, including a dissertation, as outlined below, for their DEMS degree. These 84 to 94 credit hours can be completed in as few as seven years, attending part-time.

Manufacturing Systems Core: 24 credit hours (MEMS or equivalent)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 6103	Engineering Materials	3
EME 6203	Manufacturing Processes	3
EME 6303	Computer Integrated Manufacturing	3
EME 6403	Quality Control	3
EME 6503	Manufacturing Productivity	3
EME 6603	Engineering Economics	3
EME 6703	Manufacturing Systems	3
EME 7613	Technology Management	3
MGT 6013	Leadership and Management	3

DEMS Core: 18 credit hours

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 7103	Design of Experiments	3
EME 7203	Manufacturing Systems Simulation	3
EME 7403	Design for Manufacturing	3
EME 7303	Design for Reliability	3
EME 7503	Process Control	3
EME 7603	Strategic Planning	3

Electives: 12 credit hours

Dissertation (EME 800X): 30–36 Credit Hours

The dissertation will contain the solution to a manufacturing problem: the result may be a new manufacturing related device, process, or system for which a high level of scholarship, engineering, and ingenuity are required in order to find the solution.

DEMS REQUIREMENTS FOR CONTINUING MATRICULATION

Doctoral students are advised during their first nine (9) credit hours by the director of the program until they select advisors. An academic DEMS advisor must be chosen after the student completes 42 credit hours. This advisor works with the student to identify a sponsoring company and an industrial advisor. The industrial advisor will secure the student's industrial internship. Both advisors supervise the student to achieve DEMS objectives.

DEMS REQUIREMENTS FOR COMPLETION OF DEGREE

Proposal Preparation

Students who have completed 42 credit hours of course work are eligible to register twice for a three credit hour course (EME 8003) that covers the research road map, faculty expertise, student responsibilities, how to conduct a comprehensive and complete literature survey as well as how to define the scope of applied research. The student then registers for EME 8006 to develop a proposal for the dissertation. An "in progress" grade will be given if the student completes an initial draft of the proposal. If the student fails to complete and submit an initial draft of the proposal, then a grade of "incomplete" will be

given. Additionally, the student will not be allowed to register again for EME 8006 until the “incomplete” grade is changed to an “in progress” grade.

A dissertation proposal presentation must be submitted within six (6) months from the start of the internship. The proposal should include (but not be limited to):

- Background on the industrial problem;
- Problem definition;
- State-of-the-art survey;
- Possible solutions;
- Resources needed;
- Action plan to solve the problem.

Proposal Examination

Each candidate’s doctoral committee, appointed by the DEMS director, includes a minimum of five members:

- academic advisor (chair);
- industrial advisor;
- two or more graduate faculty from the College of Engineering;
- a Lawrence Tech graduate faculty member from outside the College of Engineering.

The proposal examination is a public event. Two attempts are allowed. Failure in the second attempt will result in the student’s termination in the DEMS program. The student becomes a DEMS degree candidate after passing the examination; the successful candidate will implement the action plan as presented or modified by the doctoral committee.

After the Proposal Examination

The student will receive a letter from the DEMS director with one of the following outcomes:

- Pass as submitted
- Pass with attached modification(s)
- Fail and may resubmit
- Fail for the second time and must withdraw

During the Research Phase

At the beginning of each semester, advisors will meet with his/her advisees to agree on the expected progress and deliverables for the upcoming semester, in which the student has registered for EME 8006. Written minutes of this meeting will be kept in the student’s file and provided to the student and his/her industrial advisor. An “in progress” grade will be given if the expected progress is achieved. If the student fails to submit an acceptable progress report, a grade of “incomplete” will be given. Additionally, the student will not be allowed to register for additional sections of EME 8006 until the “incomplete” has been changed to an “in progress” grade.

Dissertation

Students are expected to meet on a regular basis with their advisors. These meetings should take place until the dissertation is completed. Students must adhere to the DEMS dissertation preparation guidelines. Students must obtain an approval from their academic

and industrial advisors for the submission of the dissertation to the doctoral committee. The dissertation must be completed in a minimum of 30 credits hours (maximum—36 credit hours).

After the Dissertation Defense

The student must incorporate the doctoral committee's recommendations and changes and submit the final copy of the dissertation to the committee for approval. The student must submit all the copies of the final dissertation as required by the University.

MASTER OF CIVIL ENGINEERING AND MASTER OF SCIENCE IN CIVIL ENGINEERING (MCE AND MSCE)

A master's degree can significantly improve prospects for a promotion and is an important key to new job opportunities. Lawrence Technological University offers a comprehensive master's program in civil engineering that provides technical and practical expertise in a rich menu of civil engineering subjects: structural, geotechnical, hydraulics/water resources, environmental, and transportation/highway engineering. Students may specialize in a technical area or distribute their course work among the various concentrations. The program is intended for the practicing civil engineer, but with the proper selection of courses it may be the prelude to additional graduate work.

A Master of Construction Engineering Management is also available through the Department of Civil Engineering (in collaboration with the College of Management) and is described elsewhere in this *Catalog*.

The master's program in civil engineering requires completing 30 or 33 credit hours, depending on the option chosen. The 30-credit option leads to a Master of Science in Civil Engineering and includes a three-credit graduate project or a six-credit thesis project.

The 33-credit option leads to a Master of Civil Engineering and is based entirely on course work. In line with Lawrence Tech's "theory and practice" approach, both degree programs emphasize practical training and the development of theoretical concepts through classroom experiences and applied research projects. Students have access to industry-standard software packages and advanced experimental testing facilities and are encouraged to interact with practitioners in the field.

All course work is offered in the late afternoon or evening, with normal program completion time in approximately two years. Most courses are offered one night per week starting at 5:45 p.m. or later. Students may select cognate course offerings from architecture, engineering, mathematics, or science with the approval of the graduate director.

MCE AND MSCE ADMISSIONS REQUIREMENTS

Admission to the MCE/MSCE program as a regular graduate student requires:

1. A BS degree in civil engineering (or equivalent) from an ABET-accredited (or equivalent) undergraduate program;
2. Minimum undergraduate GPA of 3.0;

3. Demonstration of high potential for success based on the following:
 - Application for Graduate Admission
 - Three letters of recommendation (employer and professor are preferred)
 - Official transcripts of all completed college work
 - Professional resume
 - Statement of intent.

Applicants who do not meet all conditions for regular admission may be considered for conditional admission upon review by the Graduate Admissions Committee of the College of Engineering. A conditional student will typically be granted regular status after receiving a minimum grade of “B” (3.0) in three consecutive graduate-level courses. Non-engineering graduates may be admitted to the program but may be required to take additional courses as specified by the program director.

MCE AND MSCE TRANSFER PROCEDURE

A maximum of six (6) semester hours of graduate engineering courses taken at other accredited engineering colleges may be transferred, provided they are deemed relevant by the Graduate Admissions Committee. Courses to be transferred must have been taken within the past five (5) years and a grade of “B” (3.0) or better must have been achieved. The student should petition the Graduate Admissions Committee by letter prior to completion of the first semester of graduate work. The student must submit evidence, in addition to transcripts, in the form of syllabi and examinations for each transfer course proposed. The committee may require the applicant to demonstrate proficiency in the subject through interviews with faculty members who have expertise in the subject.

Up to six (6) credits from other departments at the University can be applied toward the Master of Civil Engineering with the approval of the graduate advisor. In addition, graduate students are allowed to apply up to six (6) credits of 4000-level civil engineering courses (senior-level electives) to their master’s degree with the approval of the program director.

MCE AND MSCE DEGREE REQUIREMENTS

MCE

Technical Electives and General Courses (11 courses)	33 credits
Total Credit Hours	33 credits

MSCE Project Option

Technical Electives and General Courses (7 courses)	21 credits
Project	3 credits
Total Credit Hours	30 credits

MSCE Thesis Option

Technical Electives and General Courses (8 courses)	24 credits
Thesis	6 credits
Total Credit Hours	30 credits

MCE AND MSCE CURRICULUM

General Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ECE 5103	Applied Geographic Information Systems	3
ECE 5113	Sustainable Construction Pract	3
ECE 6011-31	Civil Engineering Seminar	1
ECE 6123	Infrastructure Problems and Solutions	3
ECE 6143	Infrastructure Systems	3
ECE 6163	Infrastructure Cost and Management	3

Environmental Engineering Specialization

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ECE 5323	Environmental Cleanup	3
ECE 5333	Air Pollution Control	3
ECE 5343	Advanced Environmental Engineering	3
ECE 5353	Environmental Management	3
ECE 5363	Surface Water Quality Management	3
ECE 5393	Special Topics in Environmental Engineering	3

Geotechnical Engineering Specialization

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ECE 5423	Geoenvironmental Engineering	3
ECE 5433	Ground Improvement Methods for Foundations	3
ECE 5453	Practicum in Geotechnical Engineering	3
ECE 5463	Earthquake Engineering	3
ECE 5473	Earth Retaining Structures	3
ECE 5493	Special Topics in Geotechnical Engineering	3

Hydraulic Engineering Specialization

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ECE 5523	River Engineering	3
ECE 5533	Coastal Engineering	3
ECE 5543	Urban Hydraulics	3
ECE 5553	Ports and Harbors	3
ECE 5593	Special Topics in Hydraulic Engineering	3

Structural Engineering Specialization

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ECE 5713	Analysis and Design of Prestressed Concrete	3
ECE 5723	Advanced Analysis and Design of Structure	3
ECE 5733	Finite Element Analysis for Structural Engineering	3
ECE 5743	Introduction to Structural Dynamics	3
ECE 5753	Advanced Concrete Design	3
ECE 5763	Advanced Composite Materials and Their Uses in Structures	3
ECE 5783	Bridge Design I	3
ECE 5813	Pavement Analysis and Performance	3
ECE 5793	Special Topics in Structural Engineering	3

General Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ECE 5911-3	Graduate Directed Study	1-3
ECE 5293	Special Topics in Civil Engineering	3
ECE 6053	Graduate Project	3
ECE 6073	Thesis I	3
ECE 6083	Thesis II	3

MASTER OF CONSTRUCTION ENGINEERING MANAGEMENT (MCEM)

A Master of Construction Engineering Management (MCEM) is offered through Lawrence Tech's Department of Civil Engineering. Degree requirements include courses from both the Department of Civil Engineering and the MBA program at Lawrence Tech. This collaboration between the College of Engineering and the College of Management provides a unique and innovative degree program.

The program's objective is to provide specialized education suitable to the needs of students interested in both the concepts of construction engineering and the principles of management. The synthesis of these two fields represents a highly specialized and marketable combination of skills. The degree aims to provide well-rounded training for the specialized field of construction engineering management.

The degree requirements consist of 30 credits, including 18 credits of required core courses, six (6) to nine (9) credits of management electives from the College of Management, and three (3) to six (6) credits of technical electives.

MCEM ADMISSIONS REQUIREMENTS

Admission to the MCEM program as a regular graduate student requires:

1. A BS degree in civil engineering (or related technical field) from an ABET-accredited (or equivalent) undergraduate program;
2. Minimum undergraduate GPA of 3.0;
3. Demonstration of high potential for success based on the following:
 - Application for Graduate Admission

- Three letters of recommendation (from employers and professors preferred)
- Official transcripts of all completed college work
- Professional resume
- Statement of intent.

Applicants who do not meet all conditions for regular admission may be considered for conditional admission upon review by the Graduate Admissions Committee. A conditional student will typically be granted regular status after receiving a minimum grade of “B” in three consecutive graduate-level courses.

Non-engineering graduates may be admitted to the program but may be required to take additional courses as specified by the program director.

MCEM TRANSFER PROCEDURE

A maximum of six (6) semester hours for graduate engineering courses taken at other accredited engineering colleges may be transferred, provided they are deemed relevant by the Graduate Admissions Committee of the College of Engineering. Courses to be transferred must have been taken within the past five (5) years and a grade of “B” (3.0) or better must have been achieved. The student should petition the Graduate Admissions Committee by letter prior to completion of the first semester of graduate work. The student must submit evidence, in addition to transcripts, in the form of syllabi and examinations for each transfer course proposed. The committee may require applicants to demonstrate proficiency in the subject through interviews with faculty members who have expertise in the subject.

In addition, up to 12 credits of the MCEM degree can be applied toward the MBA program at Lawrence Tech.

MCEM CURRICULUM

Core Courses: 18 credit hours

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ECE 5213	Project Management Techniques	3
ECE 5223	Techniques of Project Planning and Control	3
ECE 5233	Advanced Construction Techniques and Methods	3
ECE 5243	Construction Accounting and Finance	3
ECE 5253	Risk Management and Personnel	3
ECE 5273	Construction Law	3
<i>Total Hours</i>		18

Management Electives: 6 to 9 credit hours

Selected courses must be pre-approved by MCEM program director and the College of Management. Suggested courses include:

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6013	Leadership and Management	3
MGT 6053	Perspectives in International Business	3
MGT 6233	Business Strategies/E-Commerce	3
MKT 6023	E-Market and Global Economy	3
HRM 5023	Leading Organizational Change	3
HRM 6113	Management and Organization Development	3
HRM 6133	Managing the Project Organization	3

Technical Electives: 3 to 6 credit hours

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ECE 5113	Sustainable Construction Pract	3
ECE 5263	International Construction	3
ECE 5283	Advanced Cost Estimating Techniques	3
ECE 5293	Special Topics in Construction Engineering	3
ECE 5353	Environmental Management	3
ECE 5913	Graduate Directed Study	3
ECE 6163	Infrastructure Cost and Management	3

Other graduate courses from civil engineering or other related fields may be applied toward the technical electives requirement. Selected courses must be pre-approved by program advisor.

MASTER OF ENGINEERING IN MANUFACTURING SYSTEMS (MEMS)

Lawrence Tech's Master of Engineering in Manufacturing Systems (MEMS) is designed for working professionals who are graduates of an ABET-accredited undergraduate engineering program and who have at least one year of experience in industry. The master's program requires completing 35 credit hours. All course work can be taken in the evening. Each course meets once per week for two and one-half hours, usually starting at 5:45 p.m. This schedule permits the MEMS candidate to complete all degree requirements in approximately two years.

Lawrence Tech's Master of Engineering in Manufacturing Systems program emphasizes the vital relationships and interplay between manufacturing, engineering, research, suppliers, marketing, sales, and management. The program is designed to help students understand the systematic relationships that pervade the modern manufacturing process. It stresses the important interaction between manufacturers and suppliers, which is crucial to improving industrial output. The program seeks to strengthen the ability of practicing engineers to develop, design, and effectively utilize manufacturing systems to produce a quality product at the least cost. The combination of Lawrence Tech's practical orientation, academic experience, resources in this specialized field, and convenient accessibility is unrivaled in the area.

Another important facet of the program is the student body itself. The MEMS candidate participates with, learns from, and gets to know other engineers representing a variety of industries, manufacturers, and suppliers. The opportunity to develop both professional and

personal relationships with other graduate students has obvious benefits, and students are encouraged to participate twice in the Professional Seminar (EME 6901).

The Master of Engineering in Manufacturing Systems program is an interdisciplinary program administered by Lawrence Tech's College of Engineering. It draws upon the best resources of the entire University.

MEMS ADMISSIONS REQUIREMENTS

Admission to the MEMS program as a regular graduate student requires:

1. A BS in engineering from an ABET-accredited (or equivalent) undergraduate program;
2. Minimum undergraduate GPA of 3.0;
3. Minimum of one year of professional experience after graduation;
4. Demonstration of high potential for success based on the following documents:
 - Application for Graduate Admission
 - Three letters of recommendation (at least one from an employer documenting professional experience and one from a professor if the applicant has graduated within the last three years)
 - Official transcripts of all completed college work
 - A resume, including experience and all extracurricular activities.

Applicants who do not meet all of the conditions for regular graduate admission may be considered for conditional admission by the Graduate Admissions Committee, provided they demonstrate an exceptionally high aptitude and promise for doing graduate work, and hold a Bachelor of Science degree in engineering. A conditional graduate student will be granted regular status after maintaining a minimum 3.0 GPA in three consecutive graduate-level courses.

MEMS TRANSFER PROCEDURE

A maximum of nine (9) semester hours of graduate engineering courses taken at other accredited engineering colleges may be transferred, provided they are deemed relevant by the Graduate Admissions Committee. Courses to be transferred must have been taken in the last five (5) years and a grade of "B" (3.0) or better must have been achieved. The student should petition the Graduate Admissions Committee by letter prior to completion of the first semester of graduate work. The student must submit evidence in addition to transcripts, in the form of syllabi and examinations for each transfer course proposed. The Committee may require the applicant to demonstrate proficiency in the subject through interviews with faculty members who have expertise in the subject.

MEMS DEGREE REQUIREMENTS

The credit requirements are summarized as follows:

Core (8 courses)	24 credits
Electives (3 courses)	9 credits
Professional Seminar	2 credits

Total Credit Hours 35 credits

MEMS CURRICULUM

Core Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 6103	Engineering Materials	3
EME 6203	Manufacturing Processes	3
EME 6303	Computer Integrated Manufacturing	3
EME 6403	Quality Control	3
EME 6503	Manufacturing Productivity	3
EME 6603	Engineering Economics	3
EME 6703	Manufacturing Systems	3
MGT 6013	Leadership and Management	3

Electives

EME 5113	Polymer Materials and Processes
EME 5123	Optimization of Manufacturing Systems
EME 5253	Engineering Analysis
EME 5603	Engineering Systems Simulation
EME 5613	Reliability and Maintainability
EME 6313	Computer Aided Process Planning
EME 6323	Expert Systems in Manufacturing
EME 6993	Graduate Directed Study
EME 7613	Technology Management

Students may also elect engineering courses from other Lawrence Tech master's programs.

MASTER OF ENGINEERING MANAGEMENT (MEM)

Lawrence Technological University's Master of Engineering Management (MEM) program provides opportunities for students with diverse technical backgrounds to enhance their undergraduate education.

The program, which totals 36 credit hours, is designed for full-time students and working professionals who have degrees in technical fields such as engineering, engineering technology, physics, chemistry, mathematics, and computer science.

The MEM program is a cross-disciplinary program in the engineering and management fields with the objective to provide students with:

- The technical knowledge and skills required to manage technical and engineering functions.
- Greater exposure and opportunities to interact with other professionals from different disciplines in the industry.
- Skills to enhance their professional careers.

All course work can be taken in the evening, allowing working students to complete their studies in approximately two years. Most courses meet once or twice a week for two and a half hours, usually starting around 5:45 p.m.

MEM ADMISSIONS REQUIREMENTS

Admission to the MEM program as a regular graduate student requires:

1. A BS in engineering, engineering technology, science, mathematics, or computer science from an accredited college or university;
2. Minimum undergraduate GPA of at least 3.0;
3. Demonstration of high potential for success based on the following:
 - Application for Graduate Admission
 - Official transcripts of all completed college work
 - Three letters of recommendation.

Applicants who do not meet all conditions for regular admissions may be admitted on a provisional basis as determined by the Graduate Admissions Committee of the College of Engineering. The applicant will be evaluated for official graduate student status upon completion of six (6) semester hours of graduate course work, achieving a minimum grade of 3.0 in each course, at the University.

Students with provisional admission status may be required to take additional pre-courses to meet the program admission requirements.

MEM TRANSFER PROCEDURE

For applicants transferring from other graduate programs into the Master of Engineering Management program, no more than six (6) graduate semester credit hours may be transferred from an accredited MEM program. Any exceptions to this policy must be approved by the Graduate Admissions Committee. A minimum grade of 3.0 must have been achieved in all transfer courses. Credit for courses taken in a graduate program will be reviewed to determine whether they may be substituted within the Master of Engineering Management program at Lawrence Tech. A request for transfer courses to be considered must be made in writing at the time of application and must be accompanied by transcripts, course descriptions, and syllabi for each proposed transfer course.

MEM CURRICULUM

Core Courses: 21 credit hours

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs</i>
MIS 6013	Management Information Systems	3
MGT 6153	Project Management	3
MGT 6013	Leadership and Management	3
EME 6403	Quality Control	3
EME 6xxx	Enterprise Productivity	3
EME 6723	Special Topics in Engineering Management	3
EME 7613	Technology Management	3

Electives: 15 credit hours

COMPUTER SCIENCE

MCS 5103	Software Engineering
MCS 6123	Advanced Topics in Software Engineering

CIVIL ENGINEERING

ECE 5233	Advanced Construction Techniques and Methods
ECE 5223	Techniques of Project Planning and Control
ECE 5273	Construction Law
ECE 5283	Advanced Cost Estimating
ECE 5263	International Construction

ELECTRICAL AND COMPUTER ENGINEERING

EEE 5114	Engineering Analysis **
EEE 5264	Advanced Microprocessors**
EEE 5284	Parallel Architecture**
EEE 5364	Computer Networking**

** require departmental approval

MECHANICAL ENGINEERING

EME 6703	Manufacturing Systems
EME 6713	Production Planning and Control
EME 6133	Hazardous Materials Management
EME 6303	Computer Integrated Manufacturing
EME 6503	Manufacturing Productivity
EME 6203	Manufacturing Processes
EME 6803	Engineering Management

MANAGEMENT

MGT 6163	Foundation of Business
MGT 6223	Project Risk and Project Quality Management
OPM 6033	Operations Management

MASTER OF SCIENCE IN AUTOMOTIVE ENGINEERING (MSAE)

Lawrence Technological University's Master of Science in Automotive Engineering (MSAE) program is designed for working professionals who are graduates of ABET-accredited undergraduate mechanical or electrical engineering programs. All course work is offered in the evening, allowing working students to complete their studies in approximately two years. Most courses meet once per week for two and one-half hours, usually starting at 5:45 p.m.

Lawrence Tech's Master of Science in Automotive Engineering program is designed to help students use and improve their automotive engineering leadership skills and encompasses strategic planning, design, product engineering, manufacturing, and engineering management.

A key element of the course work is the concept that the complete automobile is a single system. All other components and component packages are subsystems, which cannot be changed independently. Woven throughout each course is the recognition that in such a complex system all areas must behave as a single entity to achieve goals. The program also emphasizes use of both full-time faculty from Lawrence Tech and an adjunct faculty of highly qualified experts currently working in the industry, who bring to the classroom their experience with the latest advancements in the field.

This Master of Science in Automotive Engineering program derives unique value from Lawrence Tech's historic relationship with the automotive and manufacturing industries, the University's philosophical emphasis on the practical application of knowledge, and the extensive utilization of industry experts as teachers and mentors.

The student body of practicing engineers, representing a broad variety of automotive related companies and a wide variety of job assignments, provides an important additional learning resource. The students work in teams on assigned projects in many of the courses, learning and enhancing teamwork as well as sharing expertise with one another.

The Master of Science in Automotive Engineering is an interdisciplinary program administered by the College of Engineering. The program consists of 10 three-credit courses: eight core courses and two technical electives. A total of 30 credit hours are required for graduation.

Students are also allowed to select a thesis option by enrolling in two three-credit-hour thesis courses in lieu of both technical electives. This option provides students with an in-depth experience in one subject area. Students who elect to enroll in the thesis option are required to select a faculty advisor from either the Departments of Mechanical or Electrical and Computer Engineering. Students may also select an industrial advisor in addition to the faculty advisor. Students must submit their thesis to a professional society for publication (e.g., *SAE Technical Papers*, *ASME Journal*, etc.). Further, all students must make a verbal presentation of their findings.

Students are required to meet regularly with their advisor. All thesis projects will be approved by the program director in addition to the faculty advisor. A copy of the proposal and the project commitment form, signed by the student and the advisor, must be presented to the program director before a student may register in the course. Upon thesis completion, two copies of the thesis, signed by both student and advisor must be presented to the program director. One copy will be maintained by the director and the second shall be held in the Lawrence Tech library.

MSAE ADMISSIONS REQUIREMENTS

Admission to the MSAE program as a regular graduate student requires:

1. A BS degree in mechanical or electrical engineering (or equivalent) from an ABET-accredited (or equivalent) university;
2. Minimum undergraduate GPA of 3.0;
3. Demonstration of high potential for success based on the following documents:

- Application for Graduate Admission
- Three letters of recommendation from an employer, business, and/or faculty
- Official transcripts of all completed college work
- A resume, including professional experiences and extracurricular activities
- Statement of purpose that includes personal and professional achievements within the last five years.

Applicants who do not meet all of the conditions for regular graduate admission may be considered for conditional admission by the Graduate Admissions Committee, provided they demonstrate an exceptionally high aptitude and promise for doing graduate work in this area and hold a Bachelor of Science degree in engineering. Applicants may be required to take the GRE examination and pass the TOEFL examination.

Additionally, the academic background of candidates will be evaluated by the Graduate Admissions Committee as part of the admissions process. Students found deficient in a particular subject area are required to enroll in pre-core crossover courses before being allowed to enroll in some of the core program courses. No graduate credit will be granted for these courses.

Pre-core Courses

Electrical Engineers take:

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 4603	Introduction to Mechanical Systems	3
EME 4613	Introduction to Thermal Systems	3

Mechanical Engineers take:

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs</i>
EEE 2123	Circuits and Electronics	3
EEE 3153	Electrical Machines and Control	3

MSAE TRANSFER PROCEDURE

A maximum of six (6) semester hours of graduate engineering courses taken at other accredited engineering colleges may be transferred provided they are deemed relevant by the Graduate Admissions Committee. Courses to be transferred must have been taken in the last five (5) years and a grade of “B” (3.0) or better must have been achieved. Students should petition the Graduate Admissions Committee by letter prior to completion of the first semester of graduate work. Students must submit evidence, in addition to transcripts, in the form of syllabi and examinations for each transfer course proposed. The committee may require the applicant to demonstrate proficiency in the subject through interviews with faculty members who have expertise in the subject.

MSAE CURRICULUM

Core Courses: 24 credit hours (all required)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 5433	Vehicle Dynamics 1	3
EME 6333	Body and Chassis Systems	3
EME 6353	Automotive Mechanical Systems	3
EME 6363	Automotive Electrical Systems	3
EME 6373	Powertrain Systems 1-Engines	3
EME 6383	Powertrain Systems 2-Transmissions (manual and automatic)	3
EME 6623	Automotive Control Systems 1	3
EME 6803	Engineering Management	3

Electives: 6 credit hours (two courses required)

EME 5103	Fasteners and Bolted Joints
EME 5203	Design of Mechanical Joints
EME 5573	Automotive HVAC 1 (Heating, Ventilating and Air Conditioning)
EME 6343	Automotive Manufacturing
EME 6443	Emission Control Systems
EME 6473	Hybrid Electric Vehicles
EME 6513	Advanced Automotive Driveline Systems 1
EME 6913	Thesis 1
EME 6923	Thesis 2
EME 6983	Special Topics in Automotive Engineering
EME 6993	Graduate Directed Study
EM E 7433	Vehicle Dynamics 2
EME 7513	Advanced Automotive Driveline Systems 2
EME 7623	Automotive Control Systems 2

AUTOMOTIVE RESEARCH

Lawrence Tech's Automotive Engineering Institute (AEI) offers excellent opportunities for students to participate in applied research projects. Focused on creating new knowledge in the field of automotive engineering, the AEI extends Lawrence Tech's strong research and development capabilities to corporations and governmental organizations. Students work with these partners to research such subjects as vehicle dynamics, driveline technology, NVH, emerging energy technologies, emissions, and hybrid vehicles. The University's unique 4x4 vehicle chassis dynamometer with individual wheel control is an invaluable research tool for studying vehicle performance, safety, stability, and fuel economy and responding to emerging needs in vehicle engineering. Use of this dynamometer is an integral part of several MSAE courses.

AFFILIATE INSTITUTES

Lawrence Tech currently has a cooperative agreement with the International Institute of Information Technology in Pune, India, as an affiliate institution. There may be other cooperative agreements with other institutions in the future. The transfer credit policy will be as established by agreement with respective institutions.

MSAE CUSTOMIZED GRADUATE PROGRAMS

For students with undergraduate majors in mathematics, computer science, physics, and chemistry customized bridging programs for admissions to the MSAE program are available. These bridging programs involve a limited number of targeted courses that are equivalent to one year of full-time study or slightly more, depending on the student's academic background, and can potentially accelerate progress toward the degree by up to one year.

MSAE CUSTOMIZED DUAL DEGREE PROGRAM

An accelerated honors program leading to a dual degree is available to Lawrence Tech students currently enrolled in the non-automotive engineering programs who have a minimum 3.3 GPA. This customized program allows students to share up to six (6) credit hours between both degrees.

Undergraduate students from the following majors are eligible to be considered for this program:

- Mechanical Engineering
- Electrical Engineering
- Computer Science Engineering
- Civil Engineering

Graduate students pursuing the following majors are eligible to be considered for this program:

- Master of Engineering in Manufacturing Systems
- Master of Engineering Management
- Master of Science in Electrical and Computer Engineering
- Master of Science in Mechanical Engineering
- Master of Science in Mechatronic Systems Engineering

Lawrence Tech alumni who graduated within the past three (3) years are also eligible to be considered for this program.

MASTER OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING (MSECE)

Lawrence Tech's Master of Science in Electrical and Computer Engineering program is designed for the working professional. Taking course work entirely in the evening, the student can complete the degree in two years or less. The Master of Science in Electrical and Computer Engineering program affords students an exciting opportunity to learn about advanced engineering methods used for high technology products and services. It is designed to provide advanced professional skills, expand knowledge of specific technical disciplines, and improve a student's ability to apply scientific principles in solving engineering problems.

This degree is designed to provide graduates with the tools needed to maintain their knowledge of leading technology and enhance their ability to communicate with

audiences having a variety of technical backgrounds. It is also designed to offer the background required for the pursuit of a senior engineering position or acceptance into a PhD program.

Lawrence Tech's MSECE program has been developed and thoroughly assessed with assistance from an active Industrial Advisory Board, made up of a distinguished group of engineering professionals selected for their knowledge of business practices and their experience working in the field.

MSECE ADMISSIONS REQUIREMENTS

Admission to the MSECE program as a regular graduate student requires:

1. A BS degree in electrical engineering or computer engineering from an accredited college or university;
2. Minimum undergraduate GPA of at least 3.0;
3. Demonstration of high potential for success based on the following:
 - Application for Graduate Admission
 - Three letters of recommendation (employers and professors are preferred)
 - Official transcripts of all completed college work
 - A professional resume.

Students with a GPA of less than a 3.0 may be admitted on a provisional basis. They will be evaluated for official graduate student status upon completion of 12 semester hours of graduate course work at Lawrence Tech. This evaluation will be conducted by the program director and the Graduate Admissions Committee. Students are notified of their status within two weeks of completion of the minimum required hours.

Students with a Bachelor of Science degree in a field other than electrical or computer engineering who have a GPA of at least 3.0 may be admitted on a provisional basis. These students must satisfy all prerequisite requirements before they can be granted official graduate status. The program director and the Graduate Admissions Committee will decide prerequisite requirements.

MSECE TRANSFER PROCEDURE

A maximum of nine (9) graduate semester credit hours may be transferred, and these must be from an accredited Master of Science program in electrical, electrical and computer, or computer engineering program. Credit for courses taken in a graduate program other than those listed above will be reviewed by the program director and the Graduate Admissions Committee for acceptability as a substitute within Lawrence Tech's program.

Courses transferred must have been taken in the last five (5) years and a grade of "B" (3.0) or better must have been achieved. All petitions for course transfer consideration must be made in writing at the time of application. Credit may be earned at another university after matriculation by guest credit. Guest credit forms must be completed at both Lawrence Tech and the university where the courses are to be taken. No guest credit will be granted for courses that are being offered at Lawrence Tech during the same semester during which the student is applying for guest credit. Since fewer MSECE

graduate courses are offered during the summer semester, some students apply for guest credit during the summer. All requests for transfer or guest credit must be accompanied by an official transcript.

MSECE DEGREE REQUIREMENTS

Students must complete 30 semester hours (credits) of course work, approved by their graduate advisor and the department chair. This course work must include the four required courses listed below, and 14 technical elective credit hours, eight hours of which must be at the 6000 level. At least four credits at the 6000 level must be elected from the Department of Electrical and Computer Engineering.

MSECE CURRICULUM

Core Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EEE 5114	Engineering Analysis	4
EEE 5324	Network Synthesis	4
EEE 5444	Digital Communications	4
EEE 5534	Digital Controls	4

Technical Electives

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EEE 5144	Power Distribution Systems	4
EEE 5204	Advanced Computer Architecture	4
EEE 5264	Advanced Microprocessors	4
EEE 5274	Digital Image Processing	4
EEE 5284	Parallel Architectures	4
EEE 5354	Analog Integrated Circuit Design	4
EEE 5364	Computer Networking	4
EEE 5524	Modern Control Systems	4
EEE 5554	Applications of Artificial Intelligence	4
EEE 5564	Interfacing and Control of Robots	4
EEE 5614	Computer-Aided Design of Integrated Circuits	4
EEE 5624	VLSI Systems Design	4
EEE 5634	Optical Systems Engineering	4
EEE 5654	Digital Signal Processing	4
EEE 5784	Communication Circuits	4
EEE 5911-4	Directed Study	1-4
EEE 5993-4	Special Topics in Electrical & Computer Engineering	3-4
EEE 6314	Computer Vision	4
EEE 6524	Nonlinear and Optimal Control	4
EEE 6534	Adaptive Control	4
EEE 6704	Engineering Optimization	4
EEE 6784	Advanced Communication Theory	4
EEE 6901-4	Masters Project	1-4
EEE 6993-4	Advanced Special Topics in Electrical and Computer Engineering	3-4

The following Master of Science in Computer Science (MSCS) degree electives may be used as Technical Electives with the approval of an advisor (prerequisites for these courses are listed in the descriptions of these College of Arts and Sciences courses on BannerWeb).

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MCS 5703	Introduction to Distributed Computing	3
MCS 6723	Advanced Topics in Distributed Computing	3
MCS 5103	Software Engineering	3
MCS 6123	Advanced Topics Software Engineering Techniques	3
MCS 5303	Database Systems	3
MCS 6323	Distributive Database Systems	3
MCS 5503	Intelligent Systems	3
MCS 6513	Advanced Topics in Intelligent Systems	3
MCS 5023	Java Programming	3

MSECE ACADEMIC STANDING

Students are expected to maintain a 3.0 GPA. If a student's GPA drops below 3.0, the student is placed on academic probation. If a student's GPA has not been raised to 3.0 at the end of one semester of academic probation, the student must appear before the Graduate Admissions Committee to explain why he or she should not be terminated from the program. Any student whose GPA has been below 3.0 for one semester, who does not appear before the committee, or who has not attained a GPA of 3.0 after two semesters of academic probation will be terminated from the program. Any student terminated from the program may reapply after one calendar year. A maximum of two grades below B (B-, C+, or C) can be counted toward a master's degree, as long as the student's GPA remains at or above 3.0, and the grades in question were earned at Lawrence Tech. Grades of C- (or lower) will not be counted toward the graduate degree.

MSECE WAIVER OF A REQUIRED COURSE

Students who have completed course work that duplicates a required course may petition for waiver of that course. The petition must include the following:

1. The name of the institution where the equivalent course work was done.
2. The name and number of the course that duplicates material in a required course.
3. A copy of the course syllabus, which must include the name and author of the textbook used, as well as detailed descriptions of the topics covered.

If the course was offered at the graduate level at the other institution, the student may petition to have the course transferred into the MSECE program. A maximum of eight hours of credit may be transferred in this manner.

If the course was offered at the undergraduate level, no graduate credit may be given, but a required course may be waived. The waiver of a required course does not reduce the

total number of credit hours that must be earned in the MSECE program. If, for example, a student obtains a waiver of the Network Synthesis course because the material was covered in an undergraduate course, another course must be substituted for Network Synthesis so that the total number of credit hours earned is still 30.

MASTER OF SCIENCE IN MECHANICAL ENGINEERING (MSME)

Lawrence Technological University's Master of Science in Mechanical Engineering (MSME) program provides opportunities for students to enhance their undergraduate engineering education. In the diverse field of mechanical engineering, many students find it both necessary and rewarding to pursue more advanced study in their particular areas of interest to enhance their professional careers. The MSME curriculum is structured to prepare graduate students in fields such as combustion engines, emissions, manufacturing processes and systems, structural analysis, vehicle dynamics, powertrain systems, vibrations, fluid dynamics, and engineering design.

The program, which totals 30 credit hours, is designed for full-time students and working professionals who are graduates of an ABET-accredited undergraduate engineering program. All course work can be taken in the evening, allowing working students to complete their studies in approximately two years. Most courses meet once or twice a week for two and a half hours, usually starting around 5:45 p.m. Applicants may choose between two options, one focused strictly on course work and the other incorporating a thesis. Pending the approval of the MSME Graduate Admissions Committee, working professionals pursuing the thesis option can choose a topic in conjunction with their job or company.

MSME ADMISSIONS REQUIREMENTS

Admission to the MSME program as a regular graduate student requires:

1. A BS in mechanical engineering degree from an ABET-accredited (or equivalent) university;
2. Minimum undergraduate GPA of at least 3.0;
3. Demonstration of high potential for success based on the following:
 - Official transcripts of all completed college work
 - Application for Graduate Admission
 - Two letters of recommendation, including one from a professor in the student's undergraduate program and one from a corporate supervisor.

Applicants who do not meet all conditions for regular admission may be admitted on a provisional basis as determined by the Graduate Admissions Committee. The applicant will be evaluated for official graduate student status upon completion of nine (9) semester hours of graduate course work, achieving a minimum grade of 3.0 in each course, at the University. Applicants with an engineering baccalaureate degree in a field other than mechanical engineering who have a GPA of at least 3.0 may be admitted on a provisional basis. These students must satisfy all prerequisite requirements before they can be granted official graduate status. All course work must be completed within five (5) years after the program is started.

MSME TRANSFER PROCEDURE

For applicants transferring from other graduate programs into the MSME program, no more than six (6) graduate semester credit hours may be transferred, and these must be from an accredited MSME program. Any exceptions to this policy must be approved by the Graduate Admissions Committee. A minimum grade of 3.0 must have been achieved in all transfer courses. Credit for courses taken in a graduate program other than mechanical engineering will be reviewed to determine whether they may be substituted within the MSME program at Lawrence Tech. A request for transfer courses to be considered must be made in writing at the time of application and must be accompanied by transcripts, course descriptions, and syllabi for each proposed transfer course. For some transfer courses, the Graduate Admissions Committee may require the applicant to demonstrate proficiency in the subject through interviews with faculty members who have expertise in the subject.

MSME DEGREE REQUIREMENTS

The credit requirements are as follows:

Thesis Option

Core (5 or 6 courses)	15 or 18 credits
Electives (2 or 3 courses)	6 or 9 credits
Thesis	6 credits
Total Credit Hours	30 credits

Non-Thesis Option

Core (6 courses)	18 credits
Electives (4 courses)	12 credits
Total Credit Hours	30 credits

MSME CURRICULUM

Core Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 5143	Internal Combustion Engines	3
EME 5153	Applied Thermodynamics	3
EME 5173	Transport Phenomena	3
EME 5213	Mechanical Vibrations	3
EME 5223	Advanced Mechanics of Materials	3
EME 5253	Engineering Analysis I	3

Applicants can choose elective courses and receive a concentration in one of five fields: Thermal/Fluid Systems; Solid Mechanics, Dynamics, and Vibration Systems; Energy Systems; Manufacturing; and Automotive. Thesis option students can obtain a concentration if they take two courses from one of the above areas and do their thesis in that same field. Non-thesis option students can obtain a concentration if they take four courses in one of the above areas. Students will be credited for only one concentration.

CONCENTRATIONS

Thermal/Fluid Systems

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 6133	Viscous Flow	3
EME 6153	Incompressible Flow I	3
EME 6223	Conduction Heat Transfer	3
EME 6233	Convection Heat Transfer	3
EME 6243	Radiation Heat Transfer	3
EME 6253	Turbulence	3
EME 6393	Compressible Flow I	3
EME 6413	Advanced Thermodynamics	3
EME 6523	Combustion and Emissions	3
EME 6543	Computational Fluid Dynamics	3
EME 6563	Aerodynamics	3

Solid Mechanics, Dynamics, and Vibrations Systems

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 6113	Fatigue Analysis	3
EME 6123	Automotive Structural Analysis	3
EME 6213	Fundamentals of Acoustics	3
EME 6423	Advanced Dynamics	3
EME 6493	Theory of Plates and Shells	3
EME 6533	Mechanical Vibrations II	3
EME 6553	Structural Stability	3
EME 6593	Random Vibrations & Spectral Analysis	3
EME 6613	Elasticity I	3
EME 7113	Fracture Mechanics	3

Energy Systems

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 5263	Energy Resources & Technology	3
EME 5273	Heat Pipes	3
EME 5283	Elements of Nuclear Engineering	3
EME 5293	Fusion Engineering	3
EME 6163	Fuel Cells and Hydrogen	3

Manufacturing

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 5123	Optimization of Manufacturing Systems	3
EME 6103	Engineering Materials	3
EME 6203	Manufacturing Processes	3
EME 6303	Computer Integrated Manufacturing	3
EME 6323	Expert Systems in Manufacturing	3
EME 6403	Quality Control	3
EME 6703	Manufacturing Systems	3

Automotive

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 6343	Automotive Manufacturing	3
EME 6353	Automotive Mechanical Systems	3

EME 6383	Powertrain Systems 2	3
EME 5433	Vehicle Dynamics 1	3
EME 6573	Advanced Automotive HVAC	3

MASTER OF SCIENCE IN MECHATRONIC SYSTEMS ENGINEERING (MSMSE)

Many mechanical functions in various products, systems, and processes have rapidly and affordably been replaced by computer and electronically based systems that dramatically improve the level of customer satisfaction. The automobile today contains over 100 computers – and the car is just one of the many modern machines, from clothes dryers and dishwashers to auto-focus cameras and ATMs, that rely on computer- and electronically controlled mechanical systems for high performance and adaptability. Control systems also play an indispensable role in robotics and the development of intelligent vehicles, which can function as everything from space probes to mobile military reconnaissance units.

The engineering of controllable mechanical systems is the focus of the emerging integrative discipline known as mechatronics. Mechatronic systems engineers use precision mechanical, electrical, and computer engineering; control theory; computer science; and sensor and actuator technology to design the enhanced products, systems, and manufacturing processes demanded by the marketplace. Lawrence Technological University's Master of Science in Mechatronic Systems Engineering provides the advanced scientific and engineering knowledge graduates need to succeed in the rapidly changing world of engineering.

Lawrence Tech's Master of Science in Mechatronic Systems Engineering is one of just a few graduate programs in the United States and the only such program in Michigan. Mid-career professionals can get the training they need in classes that are conveniently scheduled in the evenings.

As an interdisciplinary, high-technology field in the engineering of controllable mechanical systems, the MSMSE program synergizes the knowledge outcome by integrating specific areas of:

- mechanical engineering
- electrical and computer engineering
- mathematics and computer science

The areas in which MSMSE graduates will find opportunities to apply their knowledge include:

- aerospace and automotive industries
- robotics industry and manufacturing
- military vehicle and autonomous vehicle engineering
- defense systems engineering
- biomedical engineering

- truck and agricultural tractor engineering
- climate control systems engineering
- material processing
- machine test systems engineering
- communication systems and media
- big and small business companies in countless fields of human activity

MSMSE PROGRAM OBJECTIVES

The MSMSE program is designed to provide students with advanced knowledge in mechatronics. Students will focus on:

1. Learning the principles in mechanical system design for mechatronic systems.
2. Developing strong analytical and application skills in adaptive dynamics of mechatronic systems.
3. Gaining expert knowledge in the areas of the logic design of mechatronic systems, the classical and modern intelligent/robust control algorithm development, and designing mechanical systems in conjunction with their control systems.
4. Developing analytical skills in the optimization of mechatronic systems.
5. Learning the principles of designing and implementing control algorithms in hardware, the mechatronic systems.

MSMSE ADMISSION REQUIREMENTS

Admission to the MSMSE program as a regular graduate student requires:

1. A BS in mechanical engineering or electrical and computer engineering (or an equivalent degree) from an ABET-accredited undergraduate program;*
2. A minimum undergraduate GPA of 3.0;
3. Demonstration of high potential for success based on the following:
 - Application for Graduate Admission
 - Official transcripts of all completed college work
 - Three letters of recommendation, including one from a corporate supervisor and one from a professor in the student's undergraduate program, if graduated within the last three years

*Applicants who hold a BS in mathematics and computer science (or an equivalent degree) from an accredited college or university and 3–5 years experience working in a mechatronic engineering field may apply.

The MSMSE program director and the MSMSE Program Committee, if necessary, may evaluate and consider applicants, who do not meet all conditions for regular admission, for conditional admission.

Conditional students are granted regular status after maintaining a minimum 3.0 GPA in three consecutive graduate-level courses. Applicants will be notified of their status within two weeks of completion of the minimum required hours. Applicants must satisfy all prerequisite requirements before they can be granted official graduate status. The MSMSE program director will decide prerequisite requirements. Applications to the MSMSE

program may be submitted at any time of the year, for matriculation during any future semester.

MSMSE TRANSFER PROCEDURE

No more than six (6) graduate semester credit hours may be transferred, and these must be from accredited programs. A form with a request for courses for the current/coming semester must be filled in and submitted at the time of application. A minimum grade of 3.0 must have been achieved in the transfer courses. Courses must be completed within five (5) years after the program was started.

MSMSE CURRICULUM

Core Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MSE 5133	Modern Control in Mechatronic Systems	3
MSE 6113	Analytical and Adaptive Dynamics in Mechatronic Systems	3
MSE 6123	Mechanical Design of Mechatronic Systems/Robots	3
MSE 5563	Intelligent Control	3
MSE 6143	Adaptive Control in Mechatronic Systems	3
MSE 6153	Optimization in Mechatronic Systems	3
MSE 6173	Mechatronic Systems Implementation-I	3
MSE 6183	Mechatronic Systems Implementation-II	3

Elective Courses (two required)

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 6623	Automotive Controls Systems – I	3
EME 7623	Automotive Control Systems-II	3
MSE 6273	Mechatronic Manufacturing Systems	3
EEE 5534	Digital Control Systems	4
EEE 5294	Advanced Microprocessors	4
EEE 5653	Digital Signal Processing	3
EEE 5624	Computer Vision	4
MCS 5503	Intelligent Systems	3
MCS 6513	Advanced Topics in Intelligent Systems	3
MSE 7283	Robust Mechatronic Systems	3
MSE 6213	Stability in Mechatronic Systems	3
MSE 6223	Algorithmic Synthesis of Complex Mechatronic Systems	3
MSE 6253	Thesis I	3
MSE 6263	Thesis II	

Note: Courses may have prerequisites. These are listed in the course descriptions available on BannerWeb at my.ltu.edu.

RESEARCH IN THE MSMSE PROGRAM

Students can actively participate in research projects for industry and government agencies. The MSMSE laboratory is equipped with KUKA robots and National Instruments hardware and software for rapid control prototyping and conducting measurements and experimental research. FESTO equipment is a component for research and course work. The Lawrence Tech 4x4 vehicle chassis dynamometer is available for research on driveline system design and control work and experimental research on control of vehicle performance.

CERTIFICATE IN MANUFACTURING SYSTEMS (CMS)

Lawrence Technological University's Certificate in Manufacturing Systems (CMS) is offered in response to a need that exists in small- and medium-sized manufacturing enterprises. Topics include:

- The different manufacturing processes as well as the capabilities and limitations of these processes;
- The variety of manufacturing systems and how well they are suited for flexibility and productivity;
- The importance of computers in manufacturing enterprises, from the design stage to the manufacturing stage;
- Global competitiveness and the need to productively manufacture products;
- Effective leadership and management.

Admissions Requirements

Admission into the Certificate in Manufacturing Systems program requires:

1. Bachelor's degree in engineering, management, physics, computer science, chemistry or mathematics;
2. Two letters of recommendation from supervisors;
3. A resume including professional experiences and extracurricular activities.

Certificate in Manufacturing Systems Courses

A Certificate in Manufacturing Systems will be awarded upon the successful completion of the five courses listed below.

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs</i>
EME 6203	Manufacturing Processes	3
EME 6303	Computer Integrated Manufacturing	3
EME 6503	Manufacturing Productivity	3
EME 6703	Manufacturing Systems	3
MGT 6013	Leadership and Management	3

College of Management

Dean

Louis A. DeGennaro
M331, 248.204.3050

Associate Dean

Timothy Landon
M331, 248.204.3050

Assistant Dean

Chinling Lin
M331, 248.204.3073

Professors

Louis A. DeGennaro
Vernon R. Hoffner
Leland A. Lahr, emeritus
A. Lerine Steenkamp

Associate Professors

Patricia A. Castelli
Peter Chang
Barbara A. Kouskoulas, emeritus
Srikant Raghavan
Jacqueline M. Stavros

Visiting and College Professors

Benjamin Benson
Jamie Hsu
Robert Inskeep
Thomas Marx
S. Alan McCord
Nadia Shuayto

Senior Lecturers

Richard Bush
Jerry Lindman

Adjunct Faculty

Additional lecturers are assigned to selected courses and sections based on their particular specialties and expertise and are listed in the faculty roster.

Faculty Council

Robert Inskeep
Sri Raghavan
Jacqueline M. Stavros, chair

Industry Advisory Board

Nicholas G. Banda

director, Planning and Economic Development, City of Southfield

Richard Bradley

chief, TACOM Learning Center, TACOM, U.S. Army

Michael J. Coast

director, Michigan Manufacturing Tech Center

William L. Deringer

CQE, senior manager, Chrysler LLC

Robert J. Dupuis

senior manager, Chrysler LLC

Paul Howland

Marketing and Public Affairs, Michigan Economic Development Corporation

John Joshua Maynie II

director, Pricing and Commercial Operations, GE Plastics

Robert G. Riney

senior vice president and COO, Henry Ford Health System

Clarence M. Rivette

finance and consulting, Wirt-Rivett Financial and Leasing Services

Kathy Schroeder

director, Information Systems, Minacs

DEGREE PROGRAMS OFFERED

Lawrence Tech's College of Management offers these graduate programs:

Doctor of Business Administration

Doctor of Management in Information Technology

Master of Business Administration

Master of Science in Information Systems

Master of Science in Operations Management

Certificate in Global Leadership and Management

Certificate in Project Management

Certificate in Nonprofit Management and Leadership

Management is concerned with the planning, implementation, and monitoring activities undertaken by private- and public-sector organizations which serve society.

Lawrence Tech's College of Management endeavors to (1) offer graduate students an appreciation of contemporary issues, challenges, and opportunities facing the management community; and (2) provide an in-depth understanding of the processes, systems, and operations of profit and not-for-profit organizations. In doing so, the graduate programs of the College of Management are designed to offer students the concepts, skills, and knowledge needed to function effectively in technical, administrative, and managerial positions, including abilities that not only assist in securing employment but lead to steady progress within the organization.

It is the college's goal to develop and enhance leadership capabilities in graduates while instilling in them the importance of education as a life-long process that leads to

professional achievement and personal satisfaction. The college recognizes that today's manager faces challenges from strong and growing global economic forces, conflicting values, changing technology in products and processes, and demographic diversity among employees and customers. Therefore, the college is concerned with students' intellectual and cultural growth as well as their educational progress in administrative fields of study.

It is the College of Management's intent to provide a quality learning environment that is rooted in the tradition of teaching and scholarship based on relevant "real world" situations. More than ever, organizations find themselves operating in a highly competitive and ever-changing social, political, and economic/technological environment. Continued pressures on profit margins, fewer people responsible for maintaining work schedules, relentless global competition, and the pace of technological innovation are but four challenges facing many organizations today. Establishing long-term objectives and articulating innovative, highly targeted strategies for success are skills which every contemporary manager and leader must possess.

The Lawrence Tech College of Management's graduate programs are designed to enable the student to develop and demonstrate proficiency in these personal and organizational strategies. The seminar-style format utilized at Lawrence Tech allows an open dialogue between the teaching professionals and the predominantly working students. Faculty understand the conflicting demands of balancing academic preparedness, family needs, and full-time employment. This understanding leads to the use of relevant case studies, simulations/class exercises, and guest speakers who can add a greater dimension of expertise to the course materials.

Perhaps the strongest competitive advantage of the Lawrence Tech graduate business programs is their singular focus on the melding of theory and practice. The graduate candidate need look no further than Lawrence Tech to find a highly motivated faculty discussing accounting, marketing, or management challenges with students who average six years of business experience and will accept nothing less than the best. In addition to the faculty's continued commitment to excellence and their focus on real-world situations, the graduating student survey gave high marks to small class sizes (leading to frequent student-faculty interaction) and unique approaches to problem-solving and team-building as primary reasons to seek a College of Management master's degree at Lawrence Tech.

ACCREDITATION

The College of Management is accredited by the Association of Collegiate Business Schools and Programs (ACBSP) and the International Assembly of Collegiate Business Education (IACBE).

OFF-CAMPUS PROGRAMS

The College of Management's vision is: "To be recognized in the region as the innovative leader in the design and delivery of distinctive management programs for professionals." Consistent with this vision, the College of Management offers programs in many locations and in many formats. In addition to offering classes at the Southfield campus, programs are offered at three education centers in the metropolitan Detroit area and also in Northern

Michigan. International programs are offered in Toronto, Vancouver, and soon in China. Hybrid and online classes are offered to complement traditional classroom instruction.

COLLEGE TECHNOLOGY SERVICES

Although the University has many on-campus labs available for all students to utilize, the College of Management created and maintains a technology lab exclusively for its undergraduate and graduate students. This lab is housed in room M215 of the Buell Management building and offers high-end hardware and program-specific software applications. Students are also provided with printing accounts that allow them to use the networked printers at no cost. Additional print cards can be purchased at the Lawrence Tech bookstore by students who have excessive printing needs beyond normal classroom requirements.

The College of Management provides a wide range of information technology (IT) services to its students, faculty, and staff, including academic software evaluation and implementation, instructional technology services, video services, and mentoring.

ADMISSION REQUIREMENTS

Unless indicated elsewhere, applicants to the College of Management graduate degree programs are expected to be either working or work experienced. Applicants must meet one of the following criteria:

- Have earned a baccalaureate degree with a GPA of 3.0 or higher from regionally accredited institutions;
- Have earned a baccalaureate degree from a regionally accredited undergraduate program and present an acceptable GMAT score.
- Have earned a master's degree from a regionally accredited institution.

Specially admitted students are allowed to take up to six (6) semester hours and are required to meet a certain performance level to remain in the program.

TRANSFER PROCEDURE (NON-SPECIALTY PROGRAMS)

A petition for transfer of credits should be initiated by the student in the form of a letter addressed to dean, College of Management, and should be made prior to completion of the first semester of the graduate program. Up to 12 semester credits are generally accepted by Lawrence Tech's College of Management for the MBA program, and up to nine (9) semester credits for other master's programs. These courses must be graduate-level courses taken at an accredited college/university. Each course generally must have been taken within seven (7) years of application for admission. Transfer students should apply for admission through the Office of Admissions. A grade of 3.0 or better must have been earned. Grades of "passed/not passed," "pass/fail," or "pass/no entry" are not acceptable.

Students may be required to submit additional evidence (e.g., course syllabi, catalog descriptions, and tests/examinations) in order to justify transfer of credits. The Graduate Admissions Committee may require the applicant to demonstrate proficiency in the

subject either through an interview or written examination prepared by faculty members who have expertise in the subject/discipline.

CURRICULUM DELIVERY

Consistent with its mission and values, the College of Management is committed to providing appropriate instructional methods to fit the needs of its students while maximizing student learning. As a result, the college has developed three course-delivery formats:

- **Traditional courses** are courses taught exclusively in the classroom. The semester includes 13 weeks of classroom instruction plus a one-week final exam period. Traditional courses are offered on the Southfield campus and at some of Lawrence Tech's education centers and are usually held on weekday evenings or Saturdays.
- **Hybrid courses** are courses in which approximately half of the learning activities have been moved online, and time traditionally spent in the classroom is reduced but not eliminated. The goal of hybrid courses is to merge the best features of in-class teaching with the best features of online learning to promote active independent learning and reduce class seat time. Hybrid courses are offered at both the Southfield and education centers.
- **Online courses** are courses in which all of the learning activities have been moved online, replacing classroom time entirely. Online courses are designed to take advantage of the best online teaching methods with course content that can be effectively taught in an online environment. These courses provide maximum flexibility for students with challenging work and personal schedules. With permission of the office of the dean, all students may enroll in online courses to meet their graduation requirements.

DOCTOR OF BUSINESS ADMINISTRATION (DBA)

The Doctor of Business Administration (DBA) degree at Lawrence Technological University is an intensive part-time program that is designed to strengthen leaders who can think strategically and act decisively in today's global business environment. Graduates are expected to have obtained the skills required to act decisively in meeting the needs of a rapidly changing society. The program also aims to enhance students' abilities to further their careers as innovators in business. These skills are essential for successful business leaders as it becomes critical to employ leaders with a sense of social responsibility and integrity with ever-increasing sophistication in every facet of organizational life.

As a practitioner-scholar program, Lawrence Tech's DBA aims to provide thorough preparation in both the theory and practice of the latest strategic leadership and change management ideas. Graduates will have the preparation to excel in significant roles as leaders in the world's global work force. Graduates will also be provided with the breadth and depth of business administration disciplines required for success in university teaching.

DBA ADMISSIONS REQUIREMENTS

Admission to the program is competitive and the attainment of a specific set of minimum qualifications does not assure admission. Instead, admission is granted to the candidates deemed to be most qualified to achieve success. In general, applicants must:

- Hold a master's degree or equivalent in business administration from an accredited college or university with a GPA of 3.3 or higher. Students with an out-of-field master's degree are required to complete the prerequisite pre-foundation core and MBA foundation courses before starting the DBA program;
- Have accumulated five years of experience in an appropriate managerial position in a corporate, governmental, or nonprofit organization;
- Students whose native language is not English are required to take TOEFL or IELTS and TSE. Minimum acceptable score is 550 on the written TOEFL or 250 on the computerized version. Minimum acceptable IELTS is 7.0. The minimum acceptable TSE score is 74 percent. The TOEFL/IELTS requirement is waived for those international students who have completed their degrees at a recognized U.S. university.
- Provide three appropriate letters of recommendation;
- Provide a statement of purpose indicating the applicant's chief academic interest, strengths and limitations, reasons for selecting the DBA program, and for choosing Lawrence Tech;
- Complete an interview with the DBA committee;
- Take the GMAT and achieve an acceptable score.

Students who have exceptional merit in one of the above criteria but do not meet all admission criteria may be admitted under special circumstances determined by the Graduate Admissions Committee. Students who meet the admission requirements, but where supporting documentation, such as academic transcripts, is still pending, may be admitted conditionally.

DBA DEGREE REQUIREMENTS

The curriculum consists of 36 hours of course work and 24 equivalent hours of research toward a doctoral dissertation and can be completed within four years. Course work falls into two categories: the DBA core and research methods. Research toward a dissertation will be conducted on a topic within the following areas: (1) Leadership and Organization Development; (2) Business Economics and Finance; and (3) International Business.

Course work in the DBA program is offered in the following three areas:

Core Courses: 24 credit hours

Advanced Leadership Theory and Practice: Creating Strategic Leaders
Organization Development & Transformation: Leading Organizational Change
Strategic Management Information Systems and Design
Global Economic Theories: Trade and Systems
Financial Valuations and Strategies
Global Marketing: Strategy, Structures and Systems

Institutions: Strategies, Structures and Systems
Advanced Topics in Business Administration

Research Methodologies: 12 credit hours

Introduction to Inquiry and Research Methodology
Qualitative Research Design and Techniques
Quantitative Research Design and Techniques
Business Modeling and Analytical Techniques

Dissertation: 24 credit hours

DBA COMPREHENSIVE EXAMS

A student must demonstrate competence in the core research fields by the successful completion of written comprehensive examinations. All course work in both fields must have been completed before taking the comprehensive examination. A student is eligible for the comprehensive written examination, if he or she has completed:

- Course work in the core field, maintaining a cumulative GPA of 3.0
- Course work in the research field

DBA DISSERTATION

Each DBA candidate must complete a dissertation based on a dissertation proposal. The dissertation proposal must present a plan for research work on an appropriate applied research topic with the rigor and sophistication expected of doctoral-level work. The student must register for the Dissertation Proposal course (3 cr. hrs). The proposal must be submitted for acceptance to the student's dissertation committee. The research work should demonstrate innovation and applicability of state-of-the-art principles in the chosen field to real-world problems of present and future interest, i.e., it should have relevance to commerce and industry. The dissertation committee consists of a chair, who must be a full-time Lawrence Tech faculty member, a second Lawrence Tech faculty member, and an external member, preferably from an organization where the research can be applied.

DBA RESIDENCY REQUIREMENTS

General residency requirements for students enrolled in the DBA program include:

1. Registration and successful completion of a minimum of 12 hours of course work in the 12-month period prior to completion of the comprehensive examinations;
2. Enrollment for at least 12 hours every year;
3. Successful completion of all course work, comprehensive examinations, and the dissertation defense within a maximum of seven (7) years after commencing the program; and
4. Forty-five (45) graduate hours in residence, including dissertation.

STEPS IN THE DBA PROGRAM

1. Complete 36 hours of course work
2. Pass comprehensive examinations
3. Dissertation
 - Register for Dissertation Proposal course
 - Submit research proposal to chair of dissertation committee
 - Complete dissertation
 - Apply for graduation
 - Defend dissertation

DOCTOR OF MANAGEMENT IN INFORMATION TECHNOLOGY (DMIT)

The Doctor of Management in Information Technology (DMIT) at Lawrence Technological University is an intensive part-time program designed to provide advanced education for leaders in the information technology (IT) industry. The curriculum represents the integration of business practice with scholarship and emphasizes rigorous analytical skills and in-depth managerial and technical knowledge. The program seeks to prepare students for careers as problem solvers and innovators in the IT arena by providing thorough preparation in both the theory and practice of acquiring and managing IT resources in the enterprise. Graduates of the program will be at the center of an information-based society that is employing IT with ever-increasing sophistication in every facet of life. The DMIT program aims to prepare them to assume significant roles in the world's rapidly growing high technology workforce.

DMIT ADMISSIONS REQUIREMENTS

Admission to the program is competitive and the attainment of a specific set of minimum qualifications does not assure admission. Instead, admission is granted to the candidates deemed to be most qualified to achieve success. In general, applicants must:

- Hold a master's degree or equivalent in an IT field of study from an accredited college or university with a GPA of 3.3 or higher. A student with an out-of-field master's degree will be required to complete course work to meet the IT foundation requirements and other prerequisite course work as relevant to the student's background before starting the DMIT program;
- Have at least five (5) years of experience in an appropriate technical or managerial position in a corporate, governmental, or nonprofit organization;
- Students whose native language is not English are required to take the TOEFL or IELTS and TSE. The minimum acceptable score on the written TOEFL is 550, or 250 on the computerized version. The minimum acceptable IELTS score is 7.0. The minimum acceptable TSE score is 74 percent. The TOEFL/IELTS requirement is waived for those international students who have completed degrees at a recognized U.S. university;
- Provide three appropriate letters of recommendation;
- Provide a handwritten statement indicating the applicant's reasons for applying to the DMIT program at Lawrence Tech, main academic interest, strengths and limitations, and any other relevant motivation;
- Take the GMAT/GRE for purposes of benchmarking and academic advising before submitting the application package.

Students who have exceptional merit in one of the above criteria but do not meet all other admission criteria may be admitted under special circumstances determined by the DMIT Program Committee. Students who meet the admission requirements, but where supporting documentation, such as the official academic transcripts, is still pending, may be admitted conditionally.

DMIT FOUNDATION COURSES

Students entering the DMIT program must have already taken courses in the areas fundamental to succeeding in graduate course work in the management of information technology. Foundation course work includes an integrative cross-section of information technologies and business administration fields such as database technology, software development methodologies and technologies, systems architectures, data communication, and network infrastructure. Foundation courses in quantitative methods, as well as introductory courses in business and management, are also required. Students without this background must take courses as determined at the time of application.

Rules regarding the foundation courses are as follows:

1. Waivers for courses in IT, quantitative methods, and foundations of business and management can be made for:
 - Courses taken at accredited (or equivalent) schools with a B grade or better.
 - Courses taken at non-accredited schools, to be evaluated on an individual basis.
2. Courses over seven (7) years old will generally not be accepted since the rate of change in the IT field is considerable.
3. Students must achieve a GPA of at least 3.25 in IT foundation courses taken at accredited (or equivalent) schools. Substitute courses may be used to complete the GPA.
4. Based on an applicant's background, foundation courses may be taken after being admitted into the DMIT program only if the prerequisites of the curriculum are observed when registering for major and research methods courses.
5. A candidate must demonstrate competence in the IT foundation through successful completion of a Diagnostic Evaluation Interview with members of the DMIT Program Committee.

DMIT PROGRAM DESIGN

The program endorses learning outcomes in four categories:

1. Theoretical outcomes – define the concepts and principles in the field of IT management that a student should master.
2. Informational outcomes – interpreted to mean the leading-edge trends in IT that a student should be aware of.
3. Skill-sets – leadership, managerial, and technical competencies that students should have upon completing the program.
4. Informing of practice – knowledge and awareness of best practices as found in business and industry in the field of IT management.

In addition the program addresses six thematic areas of scholarship and practice, namely:

1. Abstraction and modeling – understanding/representing a problem space
2. Process improvement – focus on business and IT process viewpoints
3. Alignment – aligning IT strategy with the enterprise strategy
4. Quality – IT and software product and process quality assurance
5. Measurement – management of process performance in terms of metrics
6. Architecture – design well-architected solutions that enhances business agility

DMIT CURRICULUM

The curriculum comprises course work in three tracks:

- major, with a focus on IT management;
- research methods, with a focus on research philosophy, methodology, and design applicable to the field of IT;
- minor, electives in cognate areas within the field of business management.

The final portion of the curriculum is devoted to research in a major field toward a dissertation.

All major and research methods track courses are required unless transfer credits apply. Since the DMIT program follows a cohort approach, major and research methods courses are scheduled for each cohort. The cohort schedule is available from the DMIT office at the start of each cohort's program.

Major track course work focuses on the body of knowledge of IT management, dealing with the management and technical perspectives of IT processes within the context of the business processes of the enterprise, IT resources, and the managerial and technical competencies required to provide leadership for IT initiatives within the enterprise.

Major Track Courses

MIS 8013 IT Life Cycle Processes

MIS 8023 Advanced Data Management

MIS 8033 IT Systems Architecture

MIS 8043 IT Leadership and Management

MIS 8053 Advanced Topics in IT

Research methods course work is designed to provide students with a mastery of research philosophy, design, and methodology and covers methods and techniques relevant to the managerial and technical IT life cycle processes. The courses are at the graduate level and include methods, techniques, notations, and computer-based tools for performing information technology research, development, and implementation.

Research Methods Courses

MIS 7813 IT Research Methodology

MIS 7823 Quantitative Methods I

MIS 7833 Quantitative Methods II

MIS 7843 Modeling and Simulation

Courses in the minor track are electives serving to complement a student's knowledge in the cognate area designated for dissertation research. The field of IT has interdisciplinary relationships with many other fields of business, management, science, and engineering. The nine (9) credit hours of course work in this track should address a coherent body of knowledge interfacing with the selected research field. Minor courses should be selected in a cognate area from the accepted fields of study in business management (accounting, finance, management and organizational behavior, management science, marketing, and operations management) or other interdisciplinary field. A student may petition to include a special minor field in his/her curriculum outside of business management provided it is adequately justified and appropriate to the student's program of study.

DMIT COMPREHENSIVE EXAMS

A student must demonstrate competence in the major and research methods fields by successfully completing a written comprehensive examination for each track. All course work in a track must have been completed before a student is eligible to apply for the comprehensive examination in the track. Students should take comprehensive examinations at the earliest examinations session for which they are eligible, unless they petition to take them at the next scheduled session.

DMIT DISSERTATION

Each candidate must complete a dissertation based on a dissertation proposal, which is prepared under the supervision of the dissertation supervisor when registered for DIS 8013. The dissertation proposal must present a plan for research work on an appropriate applied research topic with the rigor and sophistication expected of doctoral-level work. The proposal must be submitted to the student's dissertation committee for review and defended by the student in a formal proposal defense session. The research should demonstrate innovation and applicability of state-of-the-art theory and principles in the chosen field to real-world problems of present and future interest, i.e., it should have relevance to contemporary enterprises. The dissertation committee consists of two members of the DMIT program committee and one or two external members, one of whom should be from the sponsoring organization where the research may be applied.

DMIT RESIDENCY REQUIREMENTS

General residency requirements for students enrolled in the program include:

1. Registration for a minimum of 12 hours of course work in every academic year.
2. Enrollment at the main Lawrence Tech campus for the major and research track course work.
3. Successful completion of all course work and comprehensive examinations within a maximum of 60 months after commencing the program.

4. Registration for 45 DMIT credits, which include dissertation credits.

STEPS IN THE DMIT PROGRAM

1. Complete 36 credit hours of course work
2. Pass comprehensive examinations
3. Dissertation
 - Register for the Dissertation Proposal course DIS 8013
 - Submit research proposal to dissertation committee
 - Register for the dissertation credit hours as determined with the supervisor
 - Write dissertation
 - Defend dissertation
 - Apply for graduation

MASTER OF BUSINESS ADMINISTRATION (MBA)

The Master of Business Administration program was first introduced into university curriculums at the turn of the 20th century and underwent a major restructuring in the late 1940s and 1950s. Today, enrollment in MBA programs has exponentially increased as it has become a necessary credential for those wishing to compete in a global society. The intent of the “traditional” MBA program, often found in business schools, is to provide the business community with a degree-holder who has been exposed to a body of knowledge that in time may be applied to actual situations. The emphasis is on “in time,” a luxury, which in a global society, employers no longer have.

In contrast, Lawrence Tech’s “non-traditional” MBA is performance driven and links knowledge to organizational activities by melding theory with practice. The intent of Lawrence Tech’s Master of Business Administration program, offered through its College of Management, is to develop leadership and management skills by providing the student with a broad understanding of the roles and responsibilities of business management, thereby enhancing the graduate’s effectiveness as a manager and leader. The learning is active, replacing the “read, look, listen, and take an exam” approach found in traditional MBAs. The program is further designed to develop the student’s skills in areas such as problem solving, communication, and team building and helps students develop a cross-disciplinary approach to managing the organization.

Lawrence Tech’s 36-credit MBA program consists of nine (9) core classes and three (3) electives. Students can select one of six areas of concentration to help expand their experiences and meet future goals: Finance, Management Information Systems, Marketing/Global Business, Nonprofit Management, Operations Management, and Project Management. The MBA can be obtained in as few as two years of evening and/or weekend study.

MBA PROGRAM DESIGN

The Lawrence Tech MBA program is based on the philosophy that graduate-level studies should incorporate both theoretical and empirical content that demonstrates a broad understanding of the skills/knowledge necessary to achieve personal and organizational success and growth. The inaugural course, Leadership and Management, is designed to provide an opportunity for the student (both individually and in teams) to demonstrate a comprehension of real-world problems and issues. Solutions requiring interpersonal skills and decision support systems are used to highlight contemporary organizational issues. Students are encouraged to take Leadership and Management at the start of their program.

Pre-core courses may be required of students who have not taken undergraduate course work in business or who do not have substantial relevant work experience. Waivers from the pre-core courses are generally granted at the time of admission to the MBA program. The essential foundations of accounting, finance, statistics, legal environment, economics, and marketing are covered in these courses. Pre-core classes may be taken concurrently with those core classes that require no prerequisites.

Core courses are designed to provide students with meaningful experiences in analyzing and implementing operational concepts and programs as well as leading directly to the selections of appropriate elective courses. Strategic Management is considered the “capstone” course and should only be scheduled near the end of the student’s program.

Elective courses are offered at Lawrence Tech in the areas of nonprofit, human resources, international business, information systems, operations management, project management, finance, and ethics. The option to take a directed study from a qualified faculty member provides an opportunity to tailor an individual program to meet the particular needs of students and employers.

MBA DEGREE REQUIREMENTS

Successful completion of the 36 credit MBA program requires:

- 12 core courses and three (3) electives, with at least 24 graduate credit hours taken at Lawrence Tech;
- Completion (or waiver) of all pre-core courses;
- Overall GPA of at least 3.0 in core/elective program areas;
- Completion of the above requirements within seven (7) years of program entry.

MBA CURRICULUM

Pre-Core Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
ACC 5002	Financial Accounting	2
FIN 5022	Introduction to Finance	2
MGT 5012	Statistical Methods	2
MGT 5032	Legal Environment	2
MKT 5013	Econ/Marketing	3

Core Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6013	Leadership and Management	3
ACC 6013	Management Accounting and Control Systems	3
OPM 6033	Operations Management	3
FIN 6013	Financial Management	3
HRM 6023	Human Resources Management	3
MGT 6053	Perspectives in International Business	3
MIS 6013	Management Information Systems	3
MKT 6013	Marketing Management	3
MGT 6063	Strategic Management	3

Concentration/Electives: Finance

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
FIN 6023	Advanced Financial Management	3
FIN 7013	Financial Markets and Institutions	3
FIN 7023	Investment Management	3
FIN 6113	International Financial Management	3

Concentration/Electives: Management Information Systems

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MIS 6113	Database Models	3
MIS 6123	Analysis and Design of Complex Systems	3
MIS 6143	Telecommunications	3
MIS 6153	Project Management (Technical)	3

Concentration/Electives: Marketing and Global Business

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MKT 6123	International Marketing Management	3
MGT 6773	Global Business Operations	3
MKT 7123	Topics in Marketing	3

Concentration/Electives: Nonprofit Management

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6073	Strategic Nonprofit Management	3
MGT 6083	Comprehensive Fund Development	3
MGT 6033	Leading Change and Building Capacity for Nonprofits	3

Concentration/Electives: Project Management

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
HRM 6133	Managing the Project Organization	3
MGT 6153	Project Management	3
MGT 6213	Directed Study/Project Management	3
MGT 6223	Project Risk and Project Quality Management	3

Other Electives

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6003	Executive Skills Development	3
MGT 6043	Ethics and Business in Society	3
MGT 6213	Directed Study	3
MGT 7123	Topics in Management	3

Any other graduate course is subject to approval by the director of the graduate programs.

MASTER OF SCIENCE IN INFORMATION SYSTEMS (MSIS)

Information technology is a key enabler in the widespread re-engineering of organizations taking place today throughout the world. Lawrence Technological University's Master of Science in Information Systems (MSIS) program is designed to prepare the student to be a highly skilled member of a professional team in an information systems environment. The goal is to enhance the graduate's performance in managerial positions by helping him or her develop skills in both professional information systems and leadership.

Lawrence Tech's MSIS program focuses on three crucial areas of professional, technical, and personal development:

- Management focus – Synthesize managerial and technical skills to plan and develop IT solutions;
- Technical focus – Analyze and evaluate legacy, current, and emerging technologies to design, implement, integrate, and improve IT systems in support of business processes in the enterprise; and
- Standards/practices focus – Utilize international standards, nationally focused processes/frameworks, and industry “best practices” to assure quality through measuring, testing, and validation.

True to the College of Management motto of “Leadership through Theory and Practice,” the MSIS program is designed to provide students with valuable skills related to these key areas:

- The ability to lead and manage – as expressed by a solid grounding of skills, the ability to execute, and the ability to communicate with others;
- The ability to promote technological and managerial innovation – as expressed through creativity, solid problem solving skills, and teamwork; and
- The ability to apply standards and best practices – as expressed in IT architecture, systems design, development, implementation, and operation.

MSIS PROGRAM DESIGN

The Master of Science in Information Systems (MSIS) program is designed to develop and enhance three essential skills sets: 1) professional development; 2) technical development; and 3) career development. MSIS students will take courses from a technical core that offers deeper knowledge of critical information technology subject areas and in one of three areas of concentration – Enterprise Security, Enterprise Integration, and Project Management. The MSIS student may also design a tailored

concentration in consultation with an academic advisor to hone skills in a particular area of information technology management. The student may select appropriate graduate courses from the College of Management or from the Departments of Mathematics and Computer Science or Electrical and Computer Engineering. A “capstone” course, either technical or managerial, completes the degree program.

Students without an IT background will be required to take foundation course work in management information systems, programming, and business.

The MSIS Program is an evening program requiring 30 hours (beyond the pre-core) for graduation. Students wishing to obtain a Master of Business Administration degree can specialize in information systems as part of their 36 hours of study.

MSIS DEGREE REQUIREMENTS

Successful completion of the MSIS program requires:

- 18 hours of core courses and 12 hours in a concentration. At least 21 credit hours must be taken at Lawrence Tech;
- Completion or waiver of all necessary pre-core courses;
- An overall GPA of at least 3.0 in core/elective program areas; and
- Completion of the above requirements within seven (7) years of program entry.

MSIS CURRICULUM

The Lawrence Tech Graduate Council and Deans’ Council approved enhancements to the College of Management’s Master of Science in Information Systems curriculum in the Fall 2004 semester. MSIS students admitted to the MSIS program prior to that semester have the option of remaining with the prior MSIS curriculum structure or choosing to work with the new structure. An MSIS advisor can help with this decision.

Pre-core Courses

The MSIS pre-core curriculum has been re-defined to address the needs of IT professionals, business professionals, or career-switchers seeking an MSIS degree. Students who lack IT experience will need to take pre-core course work in statistical methods, programming, foundations of business, and management information systems. IT professionals who lack relevant business experience would need to take the Foundations of Business pre-core class.

Core Courses: 18 credit hours

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
HRM 6033	Leading Organizational Change	3
MGT 6013 or	Leadership and Management or	3
MGT 6173	Foundations of Management	
MIS 6153 or	Project Management or	3
MGT 6153		
MIS 6123	Analysis and Design of Complex Systems	3
MSI 6143	Telecommunications and Networks	3
MIS 7593 or	Managing Information Technology or	3

Concentrations: 12 credit hours**MASTER OF SCIENCE IN OPERATIONS MANAGEMENT (MSOM)**

The Master of Science in Operations Management (MSOM) degree at Lawrence Technological University combines real-life learning with a strong theoretical knowledge base in both operations and high-level management. This unique program is designed for working professionals in such fields as manufacturing, construction, technology services, retail sales, nonprofit services, and government service who are seeking to enhance their skills in the management of capital and human resources.

Successful managers in the 21st century need more than just knowledge. They must also possess an understanding of organizational behavior and how organizations interact with the society around them. Lawrence Tech's MSOM program offers an innovative approach to management education that uses team-oriented learning situations, with an emphasis on case studies, to link theory with practice.

This program, which can be completed in 18 months, prepares students to participate as highly skilled members of a professional operations management team or to function as high-level project managers for consulting firms, start-up companies, or large-scale construction projects.

The MSOM degree offers elective courses in Manufacturing Operations, Service Operations, and Project Management. The curriculum consists of 30 hours of course work, including 21 hours of core courses and nine (9) hours of electives in the student's chosen interest. Students without a good foundation in statistics will be required complete a two-credit statistics course.

MSOM DEGREE REQUIREMENTS

Successful completion of the MSOM program requires:

- Seven (7) core courses and three (3) electives;
- Completion (or waiver) of pre-core statistics class;
- Overall GPA of at least 3.0 in core/elective program areas; and
- Completion of the above requirements within seven (7) years of program entry.

MSOM CURRICULUM**Pre-core Course**

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs</i>
MGT 5012	Statistics	2

Core Courses: 21 credit hours

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6163	Foundations of Business	3

MGT 6013	Leadership and Management	3
OPM 6023	Management Science	3
OPM 6033	Operations Management	3
MIS 6013	Management Information Systems	3
OPM 6123	Strategic Quality Management	3
OPM 6143	Cases in Operations Management (Capstone)	3

Elective Courses: 9 credit hours

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
OPM 6133	Materials, Process, and Facilities Management	3
OPM 7123	Topics in Operation Management	3
MKT 7123	Topics in Marketing	3
MGT 6153	Project Management	3
HRM 6133	Managing the Project Organization	3
OPM 6183	Service System Design	3
OPM 6193	Applications of Queuing Theory	3
OPM 6173	Discrete Simulation	3

Any other graduate course is subject to approval by the director of graduate programs.

DUAL DEGREE PROGRAM

Today, more than ever before, employers continue to look for creative, innovative individuals who demonstrate an ability to combine superb technical skills with the interpersonal skills needed to lead, manage, and inspire a 21st-century workforce. To address this growing need, Lawrence Tech has developed a unique dual degree program, a program that combines the technical skill development of a specialty master’s degree with the leadership competence gained through the MBA degree. Students enrolled in this program will receive two master’s degrees, one in their field of expertise or specialty and the other in management (MBA), with one set of curricular requirements.

DUAL DEGREE PROGRAM DESIGN

Lawrence Tech’s dual degree program is distinctively designed to enhance opportunities for the personal and professional growth of tomorrow’s leaders and provides qualified students with course work most suited to their career paths. Students in the dual degree program will take tailored core of course work in both the University’s MBA program and one of its master’s degree programs in Information Systems, Manufacturing Systems, Operations Management, Engineering Management, Automotive Engineering, or Architecture. Upon completion of the course work in both programs, a student will be awarded an MBA degree from the College of Management and a master’s degree from the College of Management, the College of Engineering, or the College of Architecture and Design. Most importantly the fully accredited dual degree program remains true to Lawrence Tech’s mission of blending theory and practice to provide its students with real-world experience.

The dual degree program consists of 49 credits for students who choose to complete their studies by enrolling in the four-credit thesis designed to integrate the two disciplines. Students who choose not to write a thesis will take two additional credits for a total of 51

credit hours. The 49–51 credit hour requirement is exclusive of any pre-core course work that may be necessary. Many students will be able to complete the entire program in three years or less.

The following curricula illustrate the core of Lawrence Tech’s dual degree program.

MASTER OF BUSINESS ADMINISTRATION AND MASTER OF SCIENCE IN INFORMATION SYSTEMS (MBA/MSIS)

MBA Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6013	Leadership and Management	3
MIS 6013	Management Information Systems	3
MKT 6013	Marketing Management	3
FIN 6013	Financial Management	3
ACC 6013	Management Accounting	3
HRM 6023	Human Resource Management	3
MGT 6053	International Business	3
OPM 6033	Operations Management	3
MGT 6063	Strategic Management	3

MSIS Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MIS 6113	Database Models	3
MIS 6123	Analysis and Design	3
MIS 6143	Telecommunications and Network	3
MIS/MGT 6153	Project Management	3
MIS 7493 or	Technical Capstone or	3
MIS 7593	Managing Information Technology	
MIS xxx3	MIS elective	3

Additional Requirements:

- one 4-credit thesis **or** two 3-credit electives
- pre-core required for students without undergraduate course work in business or relevant business experience

MASTER OF BUSINESS ADMINISTRATION AND MASTER OF SCIENCE IN OPERATIONS MANAGEMENT (MBA/MSOM)

MBA Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6013	Leadership and Management	3
MIS 6013	Management Information Systems	3
MKT 6013	Marketing Management	3
FIN 6013	Financial Management	3
ACC 6013	Management Accounting	3
HRM 6023	Human Resource Management	3
MGT 6053	International Business	3

OPM 6033	Operations Management	3
MGT 6063	Strategic Management	3

MSOM Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
OPM 6023	Management Science	3
OPM 6123	Strategic Quality Management	3
OPM 6143	Cases in Operations Management	3
OPM 7123	Advanced Topics in Operations Management	3
OPM xxx3	OPM elective	3
OPM xxx3	OPM elective	3

Additional Requirements:

- one 4-credit thesis **or** two 3-credit electives
- pre-core required for students without undergraduate course work in business or relevant business experience

MASTER OF BUSINESS ADMINISTRATION AND MASTER OF ENGINEERING MANAGEMENT (MBA/MEM)

MBA Courses

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6013	Leadership and Management	3
MIS 6013	Management Information Systems	3
MKT 6013	Marketing Management	3
FIN 6013	Financial Management	3
ACC 6013	Management Accounting	3
HRM 6023	Human Resource Management	3
MGT 6053	International Business	3
OPM 6033	Operations Management	3
MGT 6063	Strategic Management	3

MEM Courses:

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
EME 7613	Technology Management	3
EME 6723	Special Topics	3
EME xxx3	Quality Management	3
EME 6703	Manufacturing Systems	3
EME 6713	Production Planning and Control	3
EME 6583	Enterprise Productivity	3
EME 6823	Product Innovation and Design	3

Additional Requirements:

- one 4-credit thesis **or** two 3-credit electives
- pre-core required for students without undergraduate course work in business or relevant business experience

DUAL DEGREE PROGRAM FOR CURRENT STUDENTS AND ALUMNI

Current students and Lawrence Tech alumni desirous of obtaining a second degree from the College of Management can have their required course work individually tailored and aligned with their existing degree.

CERTIFICATE IN NONPROFIT MANAGEMENT AND LEADERSHIP

The 12-credit-hour Certificate in Nonprofit Management and Leadership offers a rigorous examination of the evolving nonprofit sector and its core management competencies. The program uniquely blends the best practices of business and nonprofit management with a focus on multi-sector collaboration, ethics, and social responsibility. Course work topics include comprehensive fund development education, leadership and capacity building, financial accountability, and evaluation.

Candidates must apply for admission to the College of Management. Credits earned can be applied to an MBA concentration in nonprofit management.

Certificate in Nonprofit Management and Leadership Course Work

Successful completion of the graduate certificate program requires 12 credits as listed below and an overall GPA of at least 3.0.

Required Courses: 12 credit hours

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6033	Leading Change and Building Capacity for Nonprofits	3
MGT 6083	Comprehensive Fund Development for Nonprofits	3
MGT 6073	Strategic Nonprofit Management	3
MGT 6xx3	Elective or Directed Study	3

CERTIFICATE IN PROJECT MANAGEMENT

This 12-credit-hour certificate is designed to provide comprehensive knowledge of project management skills in either a managerial or technical environment.

Students may work toward the Certificate in Project Management independently or may pursue the certificate as part of any of the college's master's degree programs (Master of Business Administration, Master of Science in Information Systems, or Master of Science in Operations Management) by applying to both programs simultaneously.

Certificate in Project Management Course Work

Successful completion of the certificate program requires 12 credits selected from the following list and an overall GPA of at least 3.0.

<i>Course Number</i>	<i>Subject</i>	<i>Cr. Hrs.</i>
MGT 6153	Project Management (required)	3

MGT 6033	Leading Organizational Change	3
HRM 6133	Managing the Project Organization	3
MGT 6213	Directed Study	3
MGT 6223	Project Risk and Project Quality Management	3
MIS 6253	Managing Outsourced Projects	3
MGT 7123	Topics in Project Management	3

Note: MGT 6153 Project Management has a management or a technical version. The technical version has a concentration in information technology.

Administration

President and Chief Executive Officer

Executive Assistant to the President
University Architect

Lewis N. Walker

Louise M. Garrett
Joseph C. Veryser

Vice President of University Advancement

Associate Vice President of Advancement
and Chief Development Officer
Assistant Vice President for Major Gifts
and Campaign Director
Manager, Advancement Services and Annual Giving
Director, Major Gifts
Director, Technology Partnerships
Director, Corporate and Foundation Relations
Manager, Alumni Relations and Alumni Giving
Manager, University Special Events

Stephen Brown

Dennis J. Howie

Dino M. Hernandez
Janice Ferman
Julie Vulaj
Mark Brucki
Howard Davis
Mary E. Randazzo
Robin Leclerc

Executive Director, Marketing and Public Affairs
Director, University Communications and Academic Editor
Managing Editor, News Bureau
Director, Multimedia Services and University Photographer
Manager, Web Services

Bruce J. Annett, Jr.
Anne M. G. Adamus
Eric Pope
Walter G. Bizon
Christian Forrest

Academic Services

Provost and Chief Academic Officer

Interim Associate Provost and Dean of Graduate Programs
Director, Institutional Research and Academic Planning

Maria J. Vaz

Steve Howell
Mary Thomas

Executive Director, IT Service Delivery
Director, Laptop Help Desk
Director, Edward Donley Computer Center
Director, Veraldi Instructional Technology Resource Center

William Wachob
Charlene Lilla
Marcus Hoedeman
Pamela Lowry

Executive Director, LTU Online
Director, Library
Director, Professional Development Center

Alan McCord
Gary R. Cocozzoli
Ben Benson

Enrollment Services

Assistant Provost for Enrollment Management

University Registrar
Assistant Director, Enrollment Services
Assistant Director, Enrollment Services
Director, Admissions
Assistant Director, Admissions

Lisa R. Kujawa

Holly A. Diamond
Noreen G. Ferguson
Karen Sadanowicz
Jane T. Rohrback
Kristi Webster

Director, Financial Aid and Veteran Affairs

Mark A. Martin

Finance and Administration

Interim Vice President of Finance and Administration

Controller

Director, Human Resources

Director, Campus Facilities

Manager, University Bookstore

Director, Campus Safety

Assistant Director, Campus Safety

Coordinator, Conference Services

Linda Height

Grant Wenzinger

Deshawn Johnson

Carey G. Valentine

Carl Campanella

Harry Butler

Jay Monroe

Diana Richard

Administration of the Colleges

Dean of Architecture and Design

Associate Dean

Assistant Dean of Graduate Studies and Chair, Art and Design

Chair, Architecture

Glen Leroy

Joe Veryser

Virginia North

Ed Orłowski

Dean of Arts and Sciences

Associate Dean of Arts and Sciences

Chair, Humanities, Social Sciences, and Communication

Chair, Mathematics and Computer Science

Chair, Natural Sciences

Hsiao-Ping Moore

Glen A. Bauer

Betty Stover

David Bindschadler

Anthony Sky

Dean of Engineering

Associate Dean of Engineering

Chair, Civil Engineering

Chair, Electrical and Computer Engineering

Chair, Engineering Technology

Interim Chair, Mechanical Engineering

Devdas Shetty

Lewis Frasch

Nabil F. Grace

John Boyse

Ken Cook

Gregory Feierfeil

Dean of Management

Associate Dean

Assistant Dean

Louis A. DeGennaro

Timothy Landon

Chinling Lin

Student Services

Interim Dean of Students

Interim Director, Career Services

Interim Assistant Director, Career Services

and International Programs

McMichael

International Student Counselor, International Programs

Coordinator, Student Employment

Coordinator, Conference and Disability Services

Program Coordinator, KCP Grant and DAPCEP

Kevin Finn

Jennifer Cunningham

Cyndi

Laura Affer

Sherri Kerby

Diana Richard

Eula Muckleroy

Coordinator, Student Activities
Coordinator, Multicultural Support Services
Coordinator, Commuter Student Support Services
Director of Residence Life, University Housing
Residence Hall Coordinator, Housing-South
Residence Hall Coordinator, Housing-North
Director, Student Recreation
Assistant Director, Student Recreation
Clinical Psychologist, Clinical Counseling Services
Clinical Counselor, Clinical Counseling Services
Director, Dining Services

Leslie Wilson
Frank deHesselle
Steve Ruff
Janielle Ostrowski
Tanisha Blackmon
Jon Larson
Alan McLaughlin
Scott A. Trudeau
Jeff Betman
Lusine Hambarzumyan
Brent Bishop

Faculty Committees

Academic Program Assessment

Walter Dean, chair
Jon Brewster
Diane Cairns
Donald Carpenter
Dan Faoro
Harold Hotelling
Bill Kolasa
Tom Regenbogen
Chris Riedel
Nicole Villeneuve
Bill White
Steven Howell (ex-officio), chair
Mary Thomas (ex officio)

Academic Standing

Kevin Finn, chair
Richard Bush
Lewis Frasch
Leslie Michalik
Jane Rohrback
Nicole Villeneuve

Additional Credit Review

Glen A. Bauer
Richard Bush
Lewis Frasch
Virginia North
Jane Rohrback
Noreen Ferguson (ex-officio), chair

E-Learning Committee

Jacqueline M. Stavros, chair

Pamela Lowry, chair
Lisa M. Anneberg
Angela Baucum
Richard Bush
Gary R. Cocozzoli
Bill Drummond
Maria Franetovic
David Gregorich
Kevin A. Kelch
Gretchen Maricak
Al McCord
Virginia North
Paula Nranian
Marquita Poinsetta
Dan R. Price
Patricia M. Shamamy
Devdas Shetty
Valentina Tobos
Linda S. Wareck
Steven Howell (ex-officio)

Faculty Senate

Ghassah M. Azar, chair
Steve Rost, chair
Faculty Representatives
Harold Hotelling
Badih Jawad
Elin Jensen
Rochelle Martin
Srikant Raghavan
Marilyn Rands
Thomas Regenbogen
William White

Financial Aid and Scholarships

Jerry L. Crist, chair
Richard Bush
Lewis Frasc
Leslie Michalik
Mark A. Martin
Kristi Webster

Graduate Council

Valentina Tobos, chair
Daw R. Al-Werfalli
Peter Chang
Steven Howell (ex-officio)
Holly Diamond (ex-officio)
Jane Rohrback (ex-officio)

Library Committee

Gary R. Cocozzoli, chair
Dale Gyure
Richard R. Johnston
Barbara A. Kouskoulas
Marvin Stern
Valentina Tobos
Elizabeth Simmons (ex-officio)

Student Recreation

Alan McLaughlin, chair
Steve Rost
Scott Trudeau
Student Government Representative
Student Staff Representative

Student Discipline

Kevin Finn (ex-officio), chair
15 Student Representatives

Faculty

The two years at the end of each listing indicate first, the year of initial appointment to the University faculty, and second, the year of appointment to the designated rank. The current professional engagements of guest lecturers are also shown. Current names of degree-granting institutions are used.

JAVAD ABDOLLAHI-ALIBEIK, MS, 1993, PhD, 1994, University of Michigan.
Lecturer in Mathematics and Computer Science, 2000, 2000.

ANIRBAN ADHYA, BArch, Bengal Engineering College, India, MArch, University of Buffalo, PhD in progress, University of Michigan.
Assistant Professor in Architecture, 2004, 2006.

MAZIN AL-HAMANDO, BArch, 1978, University of Baghdad; MS Arch. Eng., 1990, MS Ind. Eng. and Mgt. Systems, 1990, PhD, 2005, Penn State University.
Lecturer in Mathematics and Computer Science, 2003, 2003.

WILLIAM S. ALLEN, ASLA; RLA; BLA, 1971, University of Michigan.
Professor of Architecture, 1973, 1995.

ATHANASIOS A. ALEXANDRIS, BSBA, 1992, Wayne State University; MS, MBA, 1999, Lawrence Technological University. City of Plymouth.
Lecturer in Management, 2000, 2000.

VICTOR L. ALLEN, BSBA, MBA, 1994, Lawrence Technological University. Detroit Edison.
Lecturer in Management, 1997, 1997.

DAW R. AL-WERFALLI, BSME, 1972, Al-Fatch University; MS, 1978, Georgia Institute of Technology; ME, 1981, DE, 1989, University of Detroit Mercy.
Professor of Mechanical Engineering, 1990, 2002.

LISA M. ANNEBERG, BS, 1979, University of Michigan; MS, 1983, PhD, 1991, Wayne State University.
Associate Professor of Electrical Engineering, 1991, 1995.

LAVETTA APPLEBY, BS, 1991, MS, 1996, Michigan State University.
Senior Lecturer in Natural Sciences, 1996, 2001.

WILLIAM C. ARLINGHAUS, BS 1964, University of Detroit Mercy; PhD, 1979, Wayne State University.
Professor of Mathematics and Computer Science, 1985, 1991.

NAJI ARWASHAN, BSE, 1987, University of Damascus; MSE, 1988, Ecole Nationale des Ponts et Chaussees; PhD, 1992, University of Michigan.
Lecturer in Civil Engineering, 1999, 1999.

JOSEPH R. ASIK, BS, 1959, Case Institute of Technology; MS, 1961, PhD, 1966, University of Illinois. Ford Motor Company.
Lecturer in Electrical Engineering, 1978, 1978.

GHASSAN AZAR, BA, 1982, MS, 1986, PhD, 1992, Wayne State University. *College Professor of Mathematics and Computer Science, 2000, 2001.*

SURESH C. BANSAL, PE; BSME, 1963, Punjab University; MSME, 1968, PhD, 1977, Wayne State University.
College Professor of Mechanical Engineering, 1997, 1998.

SAMUEL R. BAYNE, AIA, RA; BSAr, 1972, MAr, 1973, University of Michigan. Harley Ellis Devereaux.
Lecturer in Architecture, 1992, 1992.

CASILDA DE BENITO, EE, 1979, Simon Bolivar University; MS, 1983, PhD, 1985, Case Western Reserve University; MBA, 1999, Lawrence Technological University.
Lecturer in Management, 2003, 2003.

BENJAMIN BENSON, BGS, 1983, University of Michigan-Dearborn; MA, 1984, University of Detroit; PhD, 1988, Wayne State University. Cambridge Tech. Partners.
Lecturer in Management, 2001, 2001.

DAVID E. BINDSCHADLER, BS, 1970, Ohio State University; MS, 1973, PhD, 1976, Indiana University.
Associate Professor of Mathematics and Computer Science, 1999, 1999.

MATTHEW BOHDE, BS Architecture, 1975, University of Michigan, MArch, 1977, University of Michigan. Harley Ellis Devereaux.
Lecturer in Architecture, 2007, 2007.

ANDREW S. BORCHERS, BIA, 1980, Kettering University; MBA, 1982, Vanderbilt University; DBA, 1996, Nova Southeastern University.
Lecturer in Management, 1990, 1999.

JOHN BOYSE, AS, 1960, Bay City Junior College; BSE, Mathematics, 1963, MSEE, 1964, PhD, Computer Information and Control Engineering, 1971, University of Michigan.
Lecturer in Electrical and Computer Engineering, 2004, 2004.

JON J. BREWSTER, BSE, 1973, Cleveland State University; MS, 1988, PhD, 2002, Wayne State University.
Assistant Professor of Computer Science, 2004, 2004.

FREDERICK F. BUTTERS, FAIA, BS, 1983, BArch, 1984, Lawrence Technological University; JD, Wayne State University. Thomas M. Keranen & Associates.
Lecturer in Architecture, 2004, 2004.

DIANE CAIRNS, BA, 1993, Cleary College; MBA, 2001, Lawrence Technological University.
Lecturer in Management, 2001, 2001.

DONALD D. CARPENTER, BSCE, 1993, Purdue University; MSCE, 1996, Oregon State University; PhD, 2001, University of Michigan.
Associate Professor of Civil Engineering, 2000, 2007.

CHRISTOPHER CARTWRIGHT, BA, 1996, Kalamazoo College; MS, 1999, PhD, 2003, University of Iowa.
Assistant Professor of Mathematics, 2003, 2003.

PATRICIA ANN CASTELLI, BGS, 1987, Roosevelt University; MBA, 1992, Lawrence Technological University; PhD, 1994, Wayne State University.
Assistant Professor in Management, 1995, 2000.

FRANK CASTRONOVA, BA, 1970, MA, 1974, PhD, 1997, Wayne State University. St. John Health System.
Lecturer in Management, 2000, 2000.

CHARLES M. CHAMBERS, BS, 1962, MS, 1963, PhD, 1964, University of Alabama; JD, 1976, George Washington University.
Distinguished Professor of Science and Technology (on leave 2006–08), 1993, 2006.

CLARENCE G. CHAMBERS, JR., BSME, 1957, MS, 1959, Michigan State University.
Associate Professor Emeritus of Mechanical Engineering, 1959, 1999.

PETER H. CHANG, BS Math., 1968, University of Taiwan; MS Math, 1971, University of Iowa; MS Comp. Sci., 1989, Oakland University; PhD, 1975, University of Minnesota. Sun Microsystems.

Associate Professor of Management, 1998, 2001.

JAMES CHASSE, BA, 1991, Michigan State University; MBA, 1999, Lawrence Technological University. MCI WorldCom.

Lecturer in Management, 2000, 2000.

CHEN OOI CHEN, BA, 1966, National Taiwan University; MA, 1968, Yale University; PhD, 1974, Ohio State University. Chinese American Education and Cultural Center.

Lecturer in Management, 2001, 2001.

HAIWEI CHEN, BS, 1988, Nanjing University, China; MS, 1993, University of North Carolina at Charlotte. Compuware Corp.

Lecturer in Management, 2001, 2001.

MATTHEW CHYNOWETH, BSCE, 1998, Michigan State University; MSSE, 2003, Wayne State University.

Lecturer in Civil Engineering, 2006, 2006.

JUNG CHOI, BA, 1983, MBA, 1985, University of Houston; PhD, 1977, University of Texas at Arlington.

Lecturer in Management, 1999, 1999.

CHAN-JIN CHUNG, BSCS, 1981, Hong-Ik University; PhD, 1997, Wayne State University.

Assistant Professor of Computer Science, 1998, 1998.

MICHAEL J. CLOUD, BSEE, 1983, MSEE, 1985, PhD, 1987, Michigan State University.

Associate Professor of Electrical Engineering, 1987, 1992.

KEVIN COLLINS, CE, BCE, 1988, University of Delaware; MSCE, 1989, Virginia Polytechnic Institute and State University; PhD, 1995, University of Illinois.

Assistant Professor of Civil Engineering, 2006, 2006.

JAMES E. CONWAY, BA, 1968, Wayne State University; MSCAr, 1995, Central Michigan University. Detroit Historical Museum.

Lecturer in Architecture and Interior Architecture, 2000, 2000.

GARY CORNILLAUD, AIA, RA; BSAr, 1973, BArch, 1975, Lawrence Technological University.

Lecturer in Architecture, 1996, 1996.

RICHARD CORSON, BA, 1982, Temple University; JD, 1985, Washburn Law School; MA, 1989, George Washington University.

Lecturer in Management, 1996, 1996.

CALVIN CREECH, BSCE, 2002, Lawrence Technological University; MSCE, 2003, currently PhD student, University of Michigan.
Lecturer in Civil Engineering, 2004, 2004.

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Professor of Chemistry, 1968, 1982.

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Lecturer in Management, 1995, 1995.

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Lecturer in Management, 1988, 1988.

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Lecturer in Architecture, 2006, 2006.

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Lecturer in Social Sciences, 1997, 1997.

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Professor of Chemistry, 1983, 1991.

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Professor of Management, 1971, 1975.

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Lecturer in Mechanical Engineering, 1994, 1994.

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Lecturer in Mechanical Engineering, 2005

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Lecturer in Management, 1998, 1998 (retired)

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Lecturer in Mathematics and Computer Science, 2000, 2000.

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Lecturer in Mathematics and Computer Science, 2001, 2001.

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Associate Professor of Architecture, 2000, 2000.

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Lecturer in Management, 2001, 2001.

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Professor of Electrical Engineering, 1976, 1989.

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Lecturer in Architecture, 1997, 1997.

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College Professor of Mechanical Engineering, 2002, 2002.

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Associate Professor of Interior Architecture, 2006, 2006.

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Associate Professor of Mechanical Engineering, 1988, 1992.

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Lecturer in Literature, 1991, 1991.

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Associate Professor of Mechanical Engineering, 2002, 2008.

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Lecturer in Civil Engineering and Architecture, 1999, 1999.

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University Distinguished Professor, Chair of Civil Engineering, 1988, 2006.

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Lecturer in Management, 1987, 1987.

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Lecturer in Management, 2000, 2000.

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Associate Professor of Architecture, 2002, 2007.

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Associate Professor Emeritus of Electrical Engineering, 1985, 2000.

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Professor Emeritus of Electrical Engineering, 1965, 1996.

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Lecturer in Management, 2002, 2002.

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Lecturer in Management, 1999, 1999.

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Assistant Professor of Civil Engineering, 2006, 2006.

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Lecturer in Architecture, 1997, 1997.

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Professor of Management, 1987, 1989.

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Associate Professor of Economics, 1989, 1989.

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Professor of Mechanical Engineering, 2001, 2001.

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College Professor, 2002, 2002.

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Professor of Mechanical Engineering, 1988, 2006.

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Assistant Professor of Civil Engineering, 2003, 2003.

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Dean Emeritus of Engineering, 2000, 2007.

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Professor of Electrical Engineering, 1990, 2003.

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Professor of Mechanical Engineering, 1993. 1978.

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Lecturer in Management, 2003, 2003

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Lecturer in Civil Engineering, 1991, 1991.

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Lecturer in Mechanical Engineering, Advanced Automotive HVAC, 1995, 1995.

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Senior Lecturer in Humanities, 1991, 1991.

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Lecturer in Management, 1997, 1997.

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Associate Professor of Architecture, 2000, 2006.

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Associate Professor Emeritus of Management, 1980, 2000.

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Associate Professor of Electrical Engineering, 1986, 1990.

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Lecturer in Mathematics and Computer Science, 2000, 2000.

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Professor Emeritus of Mathematics and Computer Science, 1965, 1989.

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Professor Emeritus of Management, 1964, 1995.

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Lecturer in Mechanical Engineering, 1990, 1998.

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Professor of Architecture and Design, 2005, 2005.

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Lecturer in Management, 1998, 1998.

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College Professor, 2003, 2003.

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Lecturer in Management, 2002, 2002.

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Lecturer in Management, 2002, 2002.

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Lecturer in Mathematics and Computer Science, 2001, 2001.

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Professor Emeritus of Physics, 1971, 1999.

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Professor Emeritus of Physics, 1968, 1994.

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Professor of Biology, 2005, 2005.

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Professor of Humanities, 1999, 1999.

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Lecturer in Mechanical Engineering, 1996, 1996.

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Professor of Architecture and Interior Architecture, 1981, 1998.

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Lecturer in Architecture, 2006, 2006.

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Lecturer in Mechanical Engineering.

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Lecturer in Management, 1996, 1996.

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Lecturer in Management, 2001, 2001.

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Assistant Professor of Architecture, 2000, 2005.

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Associate Professor of Architecture, 1986, 1986.

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Lecturer in Management, 2002, 2002

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Lecturer in Mathematics and Computer Science, 2004, 2004.

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Associate Professor of Mechanical Engineering, 1999, 2006.

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Lecturer in Management, 2000, 2000.

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Professor of Humanities, 1968, 1985.

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Lecturer in Management, 1996, 1996.

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Lecturer in Chemistry, 1971, 1971.

DAVID ROSE, BArch, 1976, University of Kansas; MArch 1978, University of Michigan.

Lecturer in Architecture, 2001, 2001.

JOE SAVIN, AIA; RA; BArch, 1953, University of Michigan. Sanbreen Company.

Lecturer in Architecture, 1975, 1975.

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Associate Professor of Physics, 1992, 1999.

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Professor Emeritus of Architecture, 1982, 1991.

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Professor of Mechanical Engineering, 2008, 2008.

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Lecturer in Management, 1996, 1996.

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Associate Professor of Chemistry, 1991, 1997.

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Lecturer in Architecture, 1994, 1994.

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Lecturer in Architecture, 2002, 2002.

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Lecturer in Civil Engineering, 1999, 1999.

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College Professor of Humanities, 1987, 2005.

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Associate Professor of Humanities, 1986, 1986.

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Lecturer in Master of Science Education/Biology, 1998, 1998.

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DIT Chair of Manufacturing Engineering, 1986, 1986.

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Lecturer in Civil Engineering, 1999, 1999.

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Lecturer in Construction Management, 2000, 2000.

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Assistant Professor of Physics, 2001, 2007.

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Lecturer in Civil Engineering, 1999, 1999.

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Professor of Mechanical Engineering, 2001, 2005.

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Professor of Physics, 1984, 1996.

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Associate Dean, Architecture and Design, 1998, 2005.

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College Professor of Chemistry, 2001, 2001.

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Professor of Electrical Engineering, 1994, 1994.

PAUL XUN WANG, BEng, 1986, MEng, 1989, Tsinghua University; MArch, 1993, University of Washington.

College Professor of Architecture, 2001, 2001.

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Associate Professor of Humanities, 2000, 2000.

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Lecturer in Management, 2001, 2001.

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Lecturer in Architecture, 2001, 2001.

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Lecturer in Management, 1997, 1997.

MICHAEL WOLK, AIA; RA; BArch, 1970, University of Michigan. Mike Wolk and Associates.

Lecturer in Architecture, 1995, 1995.

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Lecturer in Management, 2000, 2000.

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Associate Professor of Mechanical Engineering, 1987, 1992.

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Lecturer in Electrical Engineering Technology, 1992; Lecturer in Mechanical Engineering, 2000, 2002.

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Associate Professor of Civil Engineering, 1988, 1992.

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