

Graduate Institute

Member Universities

Degree Programs

Louisiana State University
Engineering Sciences
Environmental Studies
Experimental Statistics

Mississippi State University
Civil Engineering
Environmental
Geotechnical
Hydraulics
Structural
Computational Engineering
Engineering Management
Electrical Engineering
Industrial Engineering
Computer Science and
Engineering
Mathematics and Statistics
Business Administration
Project Management

Texas A&M University
Ocean Engineering
Oceanography

Inquiries and Questions

Graduate Institute
U.S. Army Engineer Research
and Development Center
3909 Halls Ferry Road
Vicksburg, MS 39180-6199
(601) 634-4279
<http://graduate-institute.erdc.usace.army.mil>
E-mail: graduate-institute@erdc.usace.army.mil

The Graduate Institute

The Graduate Institute is an association of universities and the U.S. Army Engineer Research and Development Center (ERDC) through which academic credit and graduate degrees can be earned from Member Universities that offer programs at ERDC. The Institute was established in 1986 and functions through joint agreement between ERDC and Member Universities (Louisiana State University, Mississippi State University, and Texas A&M University). Academic oversight is given by the Graduate Institute Administrative Board, a group composed of a representative from ERDC and each Member University.

The Graduate Program

Under the program, you may enroll as either a nondegree student or in a graduate degree program at a Member University.

If you plan a degree, it will be necessary to apply for admission from the Member University offering the program desired. Completed admission forms should be submitted to the University through the U.S. Army Engineer Research and Development Center, ATTN: Director, Graduate Institute, 3909 Halls Ferry Road, Vicksburg MS 39180-6199. Application forms can be obtained from the Director's office or from the Admissions Office at the University. Please note that if you have been accepted in selected out-of-state programs, you may be eligible to enroll on an in-state tuition basis through the Academic Common Market.

Upon admission as a degree candidate into a graduate program, it will be necessary to form a graduate committee to advise and work with you in the selection of a thesis topic and the selection of courses. The graduate committee will consist of members from the university graduate faculty and a member from ERDC who has adjunct, visiting, or affiliate faculty status. The committee will be chaired by a member of the graduate faculty appointed by the head of the major department. The Institute Director will assist you in contacting and making arrangements to form your graduate committee.

In addition to providing courses to meet degree requirements, the Institute also offers graduate credits in other scientific disciplines.

The Graduate Institute does not discriminate against anyone because of age, color, national origin, race, religion, sex, or handicap.

Courses: Fall Semester 2006

Mississippi State University

Civil Engineering

CE 6523. Open-Channel Hydraulics. (3).

Instr. Dr. W. McAnally, MSU.

Continuity, energy, and momentum principles in open-channel flow; flow resistance; uniform and nonuniform flow; channel controls and transitions; unsteady flow routing.

M, W, & F, 9:00-9:50 a.m., Classroom No. 2, Bldg. 3072. (VTC).

CE 8573. Hydro-Environmental Analysis. (3).

Instr. Dr. J. Martin, MSU.

Environmental engineering aspects of physical/chemical/biological processes impacting conventional and toxic materials in surface waters. Characteristics of rivers/streams, lakes and estuaries related to environmental quality.

M, W, & F, 10:00-10:50 a.m., Classroom No. 2, Bldg. 3072. (VTC).

CE 8533. Hydromechanics. (3).

Instr. Dr. R. Stockstill, ERDC

Mechanics of incompressible unsteady, turbulent flows. Equations of motion, hydrodynamic forces on structures, introduction to turbulence. (Prereq: Consent of instructor.) Tu & Th, 3:30-4:45 p.m., Classroom No. 2, Bldg. 3072.

CE 8990. Special Topics in CE: Slopes and Embankments Stability Analysis. (3).

Instr. Dr. G. Hammitt, MSU.

Analysis of stresses in soils, shear strength of cohesive and cohesionless soils and rock, slope stability analysis in natural and man-made slopes, forensic and case studies of construction failures in saturated and partly saturated soils. M, 3:00-6:00 p.m., Classroom No. 1, Bldg. 3072.

Computer Science and Engineering

CSE 6153. Data Communication Networks. (3).

Instr. Dr. M. Ramkumar, MSU.

The concepts and practices of data communications and networking to provide the student with an understanding of the hardware and software used for date communications.

M, W, & F, 10:00 - 10:50 a.m., Classroom No. 4, Bldg. 3072. (VTC).

CSE 6733. Operating Systems I. (3).

Instr. Dr. Y. Dandass, MSU.

Historical development systems to control complex computing systems; process management, communication, scheduling techniques; file systems concepts and operation; data communication, distributed process management.

Tu & Th, 8:00-9:15 a.m., Classroom No. 4, Bldg. 3072. (VTC).

CSE 8283. Empirical Software Engineering. (3).

Instr. Dr. J. Carver, MSU.

M, W, & F, 11:00-11:50 a.m., Classroom No. 4, Bldg. 3072. (VTC).

CSE 8990. Special Topics in CS: (3).

Instr. Dr. T. Jankun-Kelly, MSU.

Tu & Th, 12:30-1:45 p.m., Classroom No. 4, Bldg. 3072. (VTC).

Industrial Engineering

IE 8583. Enterprise Systems. (3).

Instr. Dr. A. Greenwood, MSU.

Focuses on the design and improvement of an enterprise through the use of engineering tools and methods, based on the systems perspective of industrial engineering.

Tu & Th, 11:00 a.m. - 12:15 p.m., Classroom No. 4, Bldg. 3072. (VTC).

Mechanical Engineering

ME 8223. Inelasticity. (3).

Instr. Dr. M. Horstemeyer, MSU.

This course covers plasticity, creep, viscoelasticity, and inelastic behavior in relation to microstructure-property relations, constitutive modeling at different length scales, and computational simulations.

MSU Internet.

Mathematics

MA 8203. Foundations of Applied Mathematics I. (3).

Instr. Dr. W. Mastin, MSU.

Principles of applied mathematics including topics from perturbation theory, calculus of variations, and partial differential equations. Emphasis of applications from heat transfer, mechanics, and fluids.

M & W, 3:30-5:00 p.m., Classroom No. 4, Bldg. 3072.

Business

BQA 8990. Special Topics in BQA. (3).

Instr. Dr. R. Taylor, MSU.

MSU Internet. Tuition: \$1,331.25.

EC 6313. Introduction to Regional Economics. (3).

Instr. Dr. C. Campbell, MSU.

Regional economic differences; location theory (industrial, agricultural, and residential); land-use patterns; regional structure, growth, and methods of analysis; national assistance for regional economic development.

MSU Internet. Tuition: \$1,331.25.

EC 8103. Economics for Managers. (3).

Instr. Dr. J. Rezek, MSU.

Exposition of the fundamental theoretical and analytical tools of economics used by business managers engaged in decision making.

MSU Internet. Tuition: \$1,331.25.

FIN 8313. Financial Management of Projects. (3).

Instr. Dr. G. Kelly, MSU.

Focus on the financial aspects of project management. Topics include capital budgeting, risk assessment, cash flow forecasting, value estimation and identification and valuation of options embedded in the project.

MSU Internet. Tuition: \$1,331.25

MGT 8990. Special Topics in MGT. (2).

Instr. Dr. B. Spencer, MSU.

MSU Internet. Tuition: \$887.50.

First Term: 17 August - 11 October 2006

ACC 8112. Financial & Accounting Report Analysis. (2).

Instr. Dr. N. Addy, Jr., MSU.

Analysis of financial statements and internal accounting reports to help management make decisions.

MSU Internet. Tuition: \$887.50

BL 8112. Law, Ethics & Dispute Resolution. (2).

Instr. Dr. J. Bryant, MSU.

Legal and ethical issues faced by the business firm with emphasis on prevention and resolution of disputes, including mediation, negotiation and alternative dispute resolution

MSU Internet. Tuition: \$887.50.

FIN 8112. Capital Acquisition & Allocation. (2).

Instr. Dr. R. Gilmer, Jr., MSU.

Integration of risk and return concepts, capital structure, cash flow estimation, the capital acquisition process and capital budgeting into one framework.

MSU Internet. Tuition: \$887.50

MKT 8990. Special Topics in MKT. (3).

Instr. Dr. B. Engeland, MSU.

MSU Internet. Tuition: \$1,331.25.

Second Term: 12 October - 8 December 2006**BIS 8112. Management Information Technology & Systems. (2).**

Instr. Dr. J. Shim, MSU.

Course includes the description, acquisition or development and use of systems from a local and global perspective. Technology-enabled concepts are used for student assignments

MSU Internet. Tuition: \$887.50.

BIS 8122. Multimedia Communication. (2).

Instr. Dr. C. Lehman, MSU.

Emphasis on planning and delivering business presentations enhanced by multimedia. Concepts, design, and experience in developing multimedia presentations. Exposure to interactive multimedia.

MSU Internet. Tuition: \$887.50.

FIN 8122. Corporate Liquidity Analysis. (2).

Instr. Dr. R. Gilmer, MSU.

The role working capital plays in the viability of the firm and the financial management tools used to analyze and manage the firm's liquidity position.

MSU Internet. Tuition: \$887.50.

MGT 8111. Human Resource Issues. (1).

Instr. Staff, MSU.

Survey of nature and influences of human resource management in organizations. Case studies are used to apply and reinforce theory.

MSU Internet. Tuition: \$443.75.

MGT 8112. Leadership Skills. (2).

Instr. Dr. D. Cochran, MSU.

Survey of major behavioral skills used by managers to help them understand and influence behavior in an organizational setting.

MSU Internet. Tuition: \$887.50.

Calendar: Fall Semester 2006

17 Aug 06	Semester begins for MSU.
28 Aug 06	Semester begins for TAMU.
1 Sep 06	Last day to add or drop courses from TAMU.
28 Sep 06	Last day to drop a class from MSU without a grade.
3 Nov 06	Last day to withdraw from TAMU.
14 Nov 06	Last day to withdraw from MSU.
8 Dec 06	Semester ends for MSU.
13 Dec 06	Semester ends for TAMU.

Registration

Registration will be held 1-10 Aug 2006, 8:30 a.m. until 4:00 p.m., Building 3072 at ERDC.

Tuition and Fees

MSU – \$759.00/3 Semester Hours (\$253.00/hr)
(Except as noted for MBA classes).

TAMU – \$1,799.28/3 Semester Hours (Subject to Change).

Tuition and fees are payable at registration by check or money order. Corps employees must bring a copy of an **approved** purchase request (DD Form 1556).

New Students and Readmit Students

New students enrolling in courses from MSU **MUST** have a copy of their undergraduate transcript mailed to the Graduate Institute prior to registration. Students who have not been enrolled in classes at MSU for one semester (Spring or Fall) or more should also register early to ensure timely readmission to the university and enrollment in classes. **New students** enrolling in courses offered by MSU, LSU, and TAMU will have to pay an application fee of \$30, \$25, and \$50, respectively.

Withdrawals and Refunds

Requests to withdraw from a course must be submitted in writing to the Director, Graduate Institute. Refunds, if applicable, will be by the university according to their policy.

Textbooks

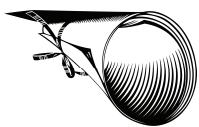
Books can be purchased through the colleges' bookstore or any retail source. A list of books and sources will be provided at registration.

Texas A&M University

Ocean Engineering

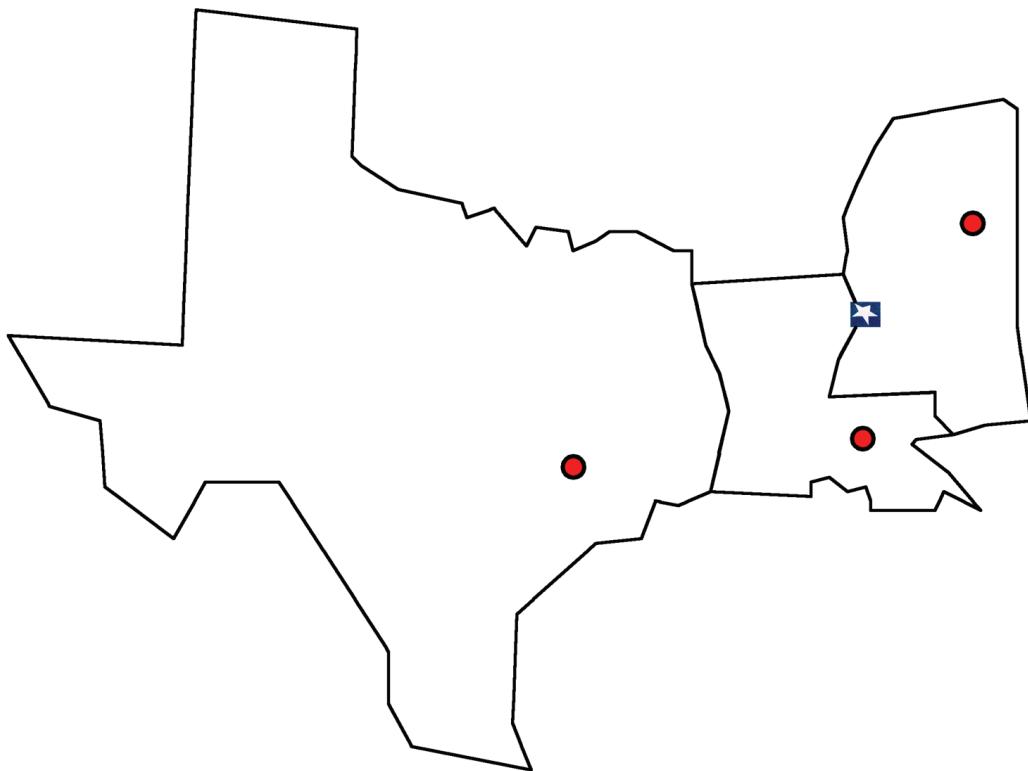
OCEN 685. Problems. (1-6). Research for thesis or dissertation.

OCEN 691. Research. (1-6). Research for thesis or dissertation.



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