Mississippi State University
Summer 2024
Course List

ASE 6713	Intro to Unmanned Aircraft	Mon – Fri	1:00pm – 2:50pm
CE 6433	Foundations	Mon – Fri	3:00pm – 4:50pm
CE 6423	Open Chan Hydraul	Mon – Fri	8:00am – 9:50am
CE 6843	Environ Engineering Chem	Mon – Fri	3:00pm – 4:50pm
CE 8423	Geotech Earthquake Engr	TBA	TBA
CE 8573	Hydro-Environ Analysis	Mon – Fri	8:00am – 9:50am
CHE 6423	Fun of Ind Corrosion	TBA	TBA
CSE 6503	Database Mng Systems	TBA	TBA
CSE 6783	Cloud Computing and Security	TBA	TBA
GE 6513	Engr. Writ. and Pres.	Mon / Wed	10:00am – 12:20pm
GE 8003	MENG Capstone	TBA	TBA
IE 6333	Prod Control Sys I	TBA	TBA
IE 6543	Logistics Engineering	TBA	TBA
IE 6613	Eng Statistics I	TBA	TBA
IE 6623	Eng Statistics II	TBA	TBA
IE 6653	Ind Qual Control I	TBA	TBA
IE 6733	Linear Programming I	Mon – Fri	3:00pm – 4:50pm
IE 6753	Systems Engr & Analysis	TBA	TBA
IE 6933	Information System in IE	TBA	TBA
IE 8623	Adv Data Analytics Cmplx Sys	TBA	TBA
IE 8990	Special Topic In IE - Engineering Human Performance, Assessment and Management	TBA	TBA
IE 8990	Special Topic In IE - Measuring Fight/Flight/Freeze Response	TBA	TBA

Course Descriptions

ASE 6713   **Intro to Unmanned Aircraft**   **Mon - Fri**   **1:00pm - 2:50pm**

Instructor: Calvin Walker

(Section 551). Three-hour lecture. This course introduces various aspects involved in the design and operation of unmanned aircraft systems. With the increasing use of UAS in civilian and military roles, future engineers will benefit from a systems perspective of unmanned aircraft systems.

Course Dates: 7/8/2024 – 8/6/2024

CE 6433   **Foundations**   **Mon – Fri**   **3:00pm – 4:50pm**

Instructor: Osman Okuyucu

(Section 591). (Prerequisite: Grade of C or better in CE 3413; or consent of major advisor). Three hours lecture. Introduction to exploration and engineering evaluation of subsoil and groundwater conditions for selection and design of foundations for structures and earth masses.

Course Dates: 6/3/2024 – 7/1/2024

CE 6523   **Open Chan Hydraul**   **Mon - Fri**   **8:00am – 9:50am**

Instructor: Thomas Lynn

(Section 591) (Prerequisite: Grade of C or better in CE 3503; or consent of major advisor). Three hours lecture. Continuity, energy and momentum principles in open channel flow, flow resistance, uniform and non-uniform flow, channel controls and transitions, unsteady flow routing.

Course Dates: 6/3/2024 – 7/1/2024

CE 6843   **Environ Engineering Chem**   **Mon - Fri**   **3:00pm – 4:50pm**

Instructor: Staff

(Section 501) (Prerequisite: Grade of C or better in CE 3823 or consent of instructor; or consent of major advisor). Three hours lecture. Introduction to advanced theoretical concepts in sanitary engineering analysis with special emphasis on inorganic, organic, and physical chemistry.

Course Dates: 6/3/2024 – 7/1/2024

CE 8423   **Geotech Earthquake Engr**   **TBA**   **TBA**

Instructor: Oliver-Denzil Taylor

(Section 501) (Prerequisite: Consent of Major Advisor). Three hours lecture. Dynamic soil properties, seismic site response analysis, and evaluation of soil liquefaction, seismic stability of dams and embankments, seismic aspects of foundation design.

Course Dates: 6/3/2024 – 8/6/2024

CE 8573   **Hydro-Environ Analysis**   **Mon – Fri**   **8:00am – 9:50am**

Instructor: Staff

(Section 501) (Prerequisite: Consent of Major Advisor.) Three hours lecture. 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.

Course Dates: 6/3/2024 – 7/1/2024

CHE 6423   **Fun of Ind Corrosion**   **TBA**   **TBA**

Instructor: Ray Bricka

(Section 591) Three hours lecture. Identifying and eliminating the different types of corrosion that lead to the failure of engineering structures.

Course Dates: 6/3/2024 – 7/1/2024

CSE 6503	**Database Mng Systems**	**TBA**	**TBA**

Instructor: Charan Gulda
(Section 501) (Prerequisites: CSE 2383 and CSE 2813, both with a grade of C or better). Three hours lecture. Modern database models; basic database management concepts; query languages; database design through normalization; advanced database models; extensive database development experience in a team environment.

Course Dates: 6/3/2024 – 8/6/2024

CSE 6783	**Cloud Computing and Security**	**TBA**	**TBA**

Instructor: Charan Gudla

(Section 501) (Prerequisite: CSE 2383 with a grade C or better). Three hours lecture. Topics include cloud architecture, service models, deployment modes, cloud security, and attack mitigation techniques.

Course Dates: 6/3/2024 – 8/6/2024

GE 6513	**Engr. Writ. and Pres.**	**Mon / Wed**	**10:00am - 12:20pm**

Instructor: Amy Barton

(Section 501) (Prerequisite: Graduate standing in an engineering discipline). Three hours lecture. Instruction in writing and presenting for engineering graduate students. Writing/presenting principles and strategies as applied to manuscripts, thesis/dissertation chapters, presentation delivery/slides, and posters.

Course Dates: 6/3/2024 – 8/6/2024

GE 8003	**MENG Capstone**	**TBA**	**TBA**

Instructor: Tamra Swann

(Section 501) Three hours lecture. An individualized professional project course open only to candidates for the Master of Engineering. Formal written paper and presentation are required.

Course Dates: 6/3/2024 – 8/6/2024

IE 6333	**Prod Control Sys I**	**TBA**	**TBA**

Instructor: Nazanin Morshedlou

(Section 591) (Prerequisite: Grade of C or better in IE 4613). Three hours lecture. Principles, analysis, and design of production and inventory planning and control. Demand for forecasting, aggregated planning, inventory management, production scheduling and control systems.

Course Dates: 6/3/2024 – 7/1/2024

IE 6543	**Logistics Engineering**	**TBA**	**TBA**

Instructor: Daniel Dunaway

(Section 551) (Prerequisite: IE 4613 and senior or graduate standing, Co-requisites: IE 4733 or MA 4733). Three hours lecture. Analysis of complex logistics networks. Integration of supply, production, inventory, transportation, and distribution. Strategies for reducing logistics costs and lead times. Customer-supplier partnerships.

Course Dates: 7/8/2024 – 8/6/2024

IE 6613	**Eng Statistics I**	**TBA**	**TBA**

Instructor: Abdur Rahaman

(Section 591) (Prerequisite: MA 1723). Three hours lecture. Introduction to statistical analysis. Topics include: probability, probability distributions, data analysis, parameter estimation, statistical intervals, and statistical inferences.

Course Dates: 6/3/2024 – 7/1/2024

IE 6623	**Eng Statistics II**	**TBA**	**TBA**

Instructor: Vidanelage Dauarathna

(Section 591) (Prerequisite: Grade of C or better in IE 4613). Three hours lecture. Continuation of IE 4613/6613. Introduction to engineering applications of regression, experimental design and analysis, and nonparametric methods.

Course Dates: 6/3/2024 – 7/1/2024

IE 6653	**Ind Qual Control I**	**TBA**	**TBA**

Instructor: Adam Piper

(Section 551) (Prerequisite: IE 4613). Three hours lecture. The theory and application of statistical quality control; statistical process control; and statistical acceptance sampling.

Course Dates: 7/8/2024 – 8/6/2024

IE 6733	**Linear Programming I**	**Mon - Fri**	**3:00pm - 4:50pm**

Instructor: Nazanin Morshedlou

(Section 551) (Prerequisites: MA 3113). Three hours lecture. Theory and application of linear programming; formulating optimization models; simplex algorithm, duality and sensitivity analysis, integer programming; branch-and-bound algorithm; real-life applications of linear and integer programming models (Same as MA 4733/6733).

Course Dates: 7/8/2024 – 8/6/2024

IE 6753	**Systems Engr & Analysis**	**TBA**	**TBA**

Instructor: Staff

(Section 591) (Prerequisite: Grade of C or better in IE 3913 and IE 4613). Three hours lecture. Systems concepts, methodologies, models and tools for analyzing, designing, and improving new and existing human-made systems.

Course Dates: 7/8/2024 – 8/6/2024

IE 6933	**Information System in IE**	**TBA**	**TBA**

Instructor: Vidanelage Dayarathna

(Section 551) (Prerequisite: Grade of C or better in CSE 1233, CSE 1284 or equivalent). Three hours lecture. An introduction to the design and development of information systems for use in industrial engineering applications.

Course Dates: 7/8/2024 – 8/6/2024

IE 8623   **Adv Data Analytics Cmplx Sys**   **TBA**   **TBA**

Instructor: Wenmeng Tian

(Section 501) (Prerequisite: IE 4623 and IE 4683/6683 or equivalent). Three hours lecture. This course will cover a collection of advanced statistical modeling methods including regression-based methods, classification methods, and functional data analysis for complex engineering systems.

Course Dates: 6/3/2024 – 8/6/2024

IE 8990   **Special Topic In IE -**   **TBA**   **TBA**

Instructor: Mark Derriso

(Section 501) Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years).

Course Dates: 6/3/2024 – 8/6/2024

IE 8990   **Special Topic In IE -**   **TBA**   **TBA**

Instructor: Adam McLean

(Section 502) Credit and title to be arranged. This course is to be used on a limited basis to offer developing subject matter areas not covered in existing courses. (Courses limited to two offerings under one title within two academic years).

Course Dates: 6/3/2024 – 8/6/2024

Mississippi State University
Registration Information

Admissions

All students participating in the off-campus program should contact Tamra Swann to get information on the Admissions and the Registrations process. Unclassified students can transfer a limited number of credits into their degree program. Tamra Swann (662-325-3786) is the Bagley Distance Education Coordinator and will assist students in pursuing their master's degree program.

Registration

Registration for Summer 2024 is ongoing through May 15th for applicants applying for online degree programs. For unclassified students, the registration deadline for Summer 2024 is 11:59 PM (CST) before the first day of class. Applications can be started at https://apply.grad.msstate.edu/ . Please call Ashley McGinty at 228-688-3170 for more details.

Tuition for Summer 2024

Online tuition for Summer 2024 is $562.00 per graduate credit hour. Other online fees may apply, depending on the program. Fee details can be found at https://www.controller.msstate.edu/accountservices/tuition/

Note: The Center of Higher Learning makes every attempt to accurately list tuition rates for our participating universities. It is advisable, however, to check with the University before submitting your final paperwork or payment.

Textbooks

Students wishing to order textbooks can do so by visiting the MSU Bookstore website at https://msstate.bncollege.com/shop/msu/home or calling at (662) 325-8361. Students can also visit the Campus Book Mart website at https://www.campusbookmart.net/cbm/ or call them at (662) 323-7660.

Important Dates

MSU offers 5-week and 10-week summer term courses. Please consult the course dates listed in the individual course descriptions. All deadlines are at 12:00 midnight unless otherwise stated.

Summer First Term

June 3rd	Classes begin
June 4th	Last day to drop (without a grade) or add a course (2nd class day)
June 27th	Classes end
June 28th	Final examinations

Summer Second Term

July 8th	Classes begin
July 9th	Last day to drop (without a grade) or add a course (2nd class day)
August 1st	Classes end
August 5th – 6th	Final examinations

Summer Ten Week Term

June 3rd	Classes begin
June 5th	Last day to drop (without a grade) or add a course (3rd class day)
June 28th - July 5th	Break for ten-week classes
July 8th	Classes resume
August 1st	Classes end
August 5th – 6th	Final examinations

For questions about registration and schedule changes, contact Tamra Swann at 662.325.3786 or tswann@bagley.msstate.edu.