

Integrated Engineering

eptember 2015 or earlier)

| September | 2018 (students who entered first year in Sep |
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| Year 2: | |
| Term A | |
| AM 2270a | Applied Mathematics for Engineering II |
| CEE 2202a | Mechanics of Materials |
| ECE 2277a | Digital Logic Systems |
| MSE 2214a | Thermodynamics I |
| MME 2259a | Product Design and Development |
| Bus 2257 | Accounting and Business Analysis |
| Term B | |
| AM 2276b | Applied Mathematics for Electrical and Mechanical Engineering III |
| CBE 2221b | Fluid Flow |
| CBE 2291b | Computational Methods for Engineers |
| ECE 2238b | Introduction to Electrical Engineering |
| SS 2143b | Applied Statistics and Data Analysis for Engineers |
| Bus 2257 | Accounting and Business Analysis |
| Year 3: | |
| Term A | |
| ES 3330a | Engineering Innovation I: Strategy and Business Economics |

| ES 3330a | Engineering Innovation I: Strategy and Business Economic |
|-----------|--|
| CBE 2220a | Chemical Process Calculations |
| CBE 3322a | Heat Transfer Operations |
| CEE 2220a | Structural Theory and Design I |
| ECE 3374a | Introduction to Electronics for Mechanical Engineering |
| MSE 3301a | Materials Selection & Manufacturing Processes |
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Term B

| ES 3331b | Engineering Innovation II: Marketing and Design Thinking | |
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| CEE 2221b | Structural Theory and Design II | |
| MSE 2213b | Engineering Dynamics | |
| MME 2285b | Engineering Experimentation | |
| MSE 3360b | Finite Element Methods in Mechanical Engineering | |
| ES 4498G | Engineering Ethics, Sustainable Development and the Law | |

Year 4:

Term A

ES 4499 Interdisciplinary Engineering Design Project Engineering Innovation III: Leadership and Corporate ES 4480a Entrepreneurship

Three 0.5 technical electives

Term B

ES 4499 Interdisciplinary Engineering Design Project ES 4481b Engineering Innovation IV: New Venture Creation

Three 0.5 technical electives

The technical electives listed here are recommended technical electives from each department. Other courses may be taken if prerequisite requirements are satisfied.

NOTES:

Year 4 Options:

Technical Elective List:

Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.

| year consult the pepartment for assurate name. | | | | |
|--|--|--|--|--|
| Chemical and Biochemical Engineering : | | | | |
| CBE 2290a/b | Fundamentals of Biochemical and | | | |
| CBE 2290a/D | Environmental Engineering | | | |
| CBE 3310a/b | Process Dynamics and Control | | | |
| CBE 3324a/b | Mass Transfer Operations | | | |
| CBE 4409a/b | Wastewater Treatment | | | |
| CBE 4421a/b | Introduction to Biomaterials Engineering | | | |
| Civil and Environmental Engineering: | | | | |
| CEE 3348a/b | Project Management and Engineering Cases | | | |
| CEE 3362a/b | Drinking Water Quality and Treatment | | | |
| CEE 4405a/b | Air Pollution | | | |
| CEE 44192/b | Systems Approach for Civil and | | | |
| CEE 4418a/b | Environmental Engineering | | | |
| CEE 4458a/b | Risk Analysis and Decision Making in | | | |
| CEE 4458a/D | Engineering | | | |
| CEE 4465a/b | Environmental Design for Waste Disposal | | | |
| CEE 4477a/b | Environmental Applications of | | | |
| • | Nanotechnology | | | |
| Electrical and Computer Engineering: | | | | |
| ECE 3349a/b | Introduction of VLSI | | | |
| ECE 3375a/b | Microprocessors and Microcomputers | | | |
| ECE 4436a/b | Networking: Principles, Protocols, and | | | |
| ECE 44300/B | Architecture | | | |
| ECE 4468a/b | Systems Optimization | | | |
| SE 3314a/b | Computer Networks Applications | | | |
| Mechanical and Materials Engineering: | | | | |
| MME 3381a/b | Kinematics and Dynamics of Machines | | | |
| MME 4452a/b | Robotics and Manufacturing Automation | | | |
| MME 4473a/b | Computer Integrated Manufacturing (CIM) | | | |
| MME 4487a/b | Mechatronic System Design | | | |
| MME 4492a/b | Production Management for Engineers | | | |
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