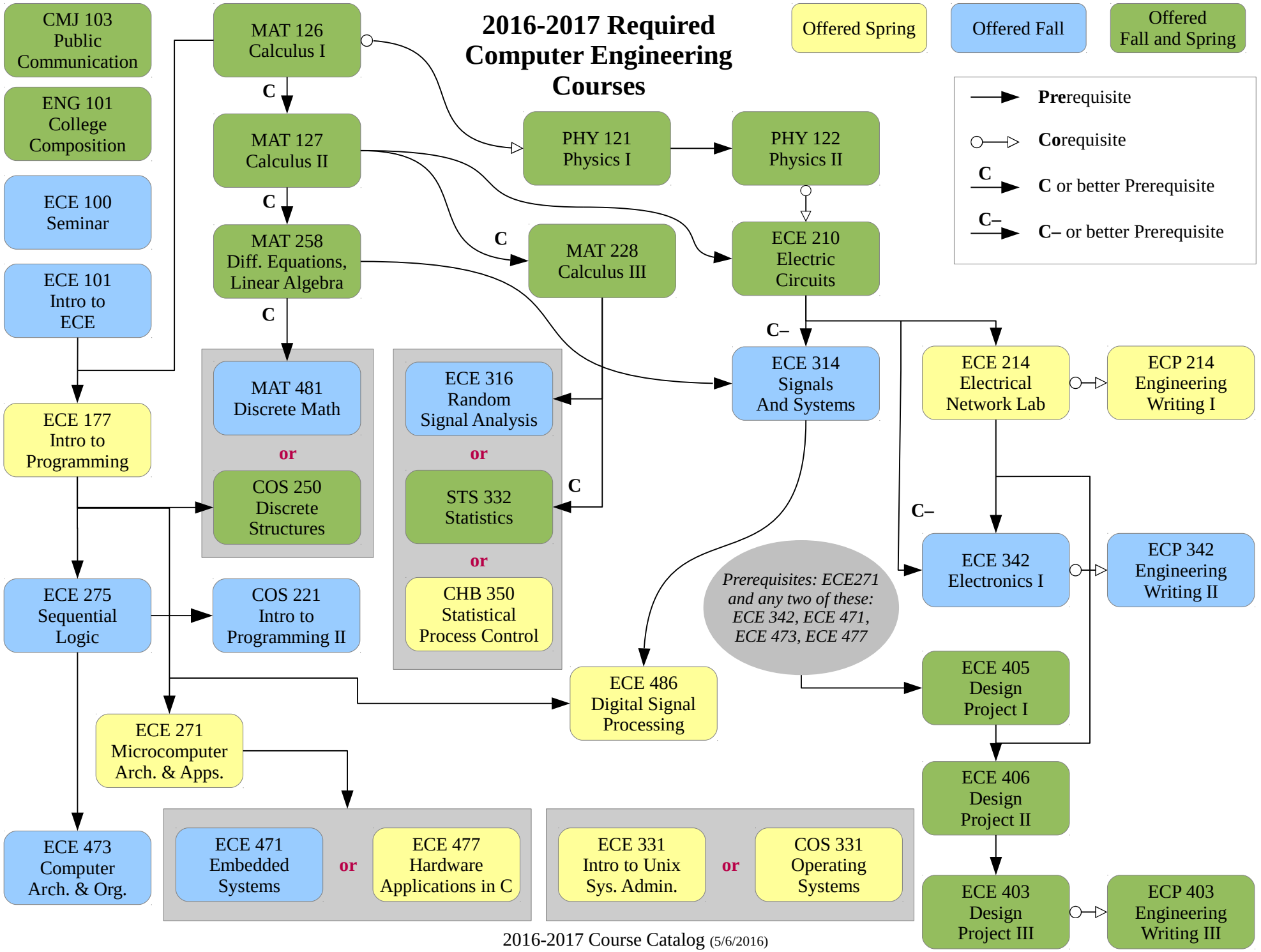
2016-2017 Required Computer Engineering Courses



2016-2017 Computer Engineering Technical Electives

Offered Spring (prerequisites)

Offered Fall (prerequisites)

Offered Fall and Spring (prerequisites)

CE *Focus* Technical Electives: *You must take at least three of these*

- ECE 417 Introduction to Robotics (ECE177 & MAT228)
- ECE 471 Embedded Systems (ECE271)
- ECE 478 Industrial Computer Control (ECE271)
- COS 3xx Computer Science Elective (varies)
- ECE 477 Hardware Applications in C (ECE277)
- ECE 498 Selected Topics with CE focus (varies)
- COS 4xx Computer Science Elective (varies)

If you wish to specialize in an area, some possibilities are:

Embedded Control
ECE478, ECE477, ECE471, ECE414

High Performance Computing
ECE331, ECE477

Robotics
ECE417, ECE477, ECE471, ECE487

- ECE 414 Feedback Control Systems (ECE314)
- ECE 484 Communications Engineering (ECE314 & ECE316)
- ECE 323 Electric Power Conversion (ECE214 & C- in ECE210)
- ECE 444 Analog IC Design (ECE314 & ECE343)
- ECE 462 Semiconductor Devices (Chy131,PHY122,MAT258)
- ECE 498 Selected Topics (varies)
- ECE 351 Fields and Waves (ECE210 & MAT228)
- ECE 427 Electric Power Systems (C- in ECE210)
- ECE 445 Digital IC Design (ECE342)
- ECE 464 Microelectronics Engineering (Chy131,PHY122,MAT258)
- Other Courses with Adviser Approval (varies)
- ECE 453 Microwave Engineering (ECE351)
- ECE 465 Introduction to Sensors (junior standing)