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< > Prerequisite
( ) Concurrently or Prerequisite

### GENERAL EDUCATION REQUIREMENTS

**Literature/Humanities/Fine Arts (9 hours)**
- Literature *(Pick One)*
  - EH 215, 216 - British
  - EH 235, 236 - World
- Fine Arts *(Pick One)*
  - ARS 101 - Art Appreciation
  - DRA 110 - Drama
- Humanities
  - CA 110 - Public Speaking

**History/Social & Behavioral Sciences (9 hours)**
- History *(Min 3 hours)*
  - HY 101, 102 - Western Civ
  - HY 135, 136 - US History
- Social Sciences & Behavioral Sciences *(Min 3 hours)*
  - AIS 115 or 201 Adult Inter. Studies
  - AN 100 or 101 Anthropology
  - CA 100 or 201 Communication
  - ECO 215 or 216 Economics
  - GEO 114 or 115 Geography
  - SY 109, 112 Sociology

**Literature** *(Pick One)*
- EH 225, 226 - American

**History** *(Min 3 hours)*
- HY 101, 102 - Western Civ
- HY 135, 136 - US History

**Social Sciences** *(Min 3 hours)*
- AIS 115 or 201 Adult Inter. Studies
- AN 100 or 101 Anthropology
- CA 100 or 201 Communication
- ECO 215 or 216 Economics
- GEO 114 or 115 Geography
- SY 109, 112 Sociology
TECH ELECTIVE SELECTION

EE technical electives must be selected from Electrical Engineering courses carrying a 400 number and must include a two-course concentration from the following concentration areas with permission of the student’s advisor:

<table>
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<tr>
<th>Concentration Areas</th>
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| Control Systems              | EE 422 Adv Feedback Control Systems  
                              | EE 423 Modern Control Theory  
                              | EE 424 Nonlinear Control System  
                              | EE 427 Digital Control Systems |
| Communications & Networks    | EE 441 Computer Networks  
                              | EE 444 Wireless Networks  
                              | EE 471 Wireless Communication  
                              | EE 473 Advanced Communication Systems |
| Digital Systems              | EE 440* HDL Logic Synthesis  
                              | EE 441 Computer Networks  
                              | EE 444 Wireless Networks  
                              | EE 471 Wireless Communication  
                              | EE 473 Advanced Communication Systems |
| Electromagnetics & Optics    | EE 450 Fundamentals of Fourier Optics  
                              | EE 452 Microwave Engineering  
                              | EE 454 Digital Computer Architecture  
                              | EE 455 Embedded System Design  
                              | EE 457 Embedded System Design  
                              | EE 458 Radar Systems  
                              | EE 459 Signal Integrity  
                              | EE 459* HDL Logic Simulation  
                              | EE 459 Advanced Digital Signal Processing  
                              | EE 470 Synthesis of Active & Passive Networks  
                              | EE 470 Embedded System Design  
                              | EE 470 Synthesis of Active & Passive Networks  
                              | EE 470 Embedded System Design  
                              | EE 482 Switch Mode Power  
                              | EE 486 Power Electronics  
                              | EE 488 Illumination Engineering  
                              | EE 488 Illumination Engineering |
| Electronics                  | EE 430 Power Semiconductor Devices  
                              | EE 431 Advanced Electronic Devices  
                              | EE 438 Virtual Instrumentation  
                              | EE 439 VLSI Technology & Fabrication  
                              | EE 438 Virtual Instrumentation  
                              | EE 485 Power Distribution & Utilization  
                              | EE 457 Embedded System Design  
                              | EE 486 Power Electronics  
                              | EE 487 Synthesis of Active & Passive Networks  
                              | EE 488 Illumination Engineering  
                              | EE 489 Renewable Energy  
                              | EE 489 Renewable Energy |
| Power Systems                | EE 481 Electrical Machines  
                              | EE 482 Switch Mode Power  
                              | EE 484 Power Systems II  
                              | EE 485 Power Distribution & Utilization  
                              | EE 485 Power Distribution & Utilization  
                              | EE 488 Illumination Engineering  
                              | EE 486 Power Electronics  
                              | EE 488 Illumination Engineering  
                              | EE 489 Renewable Energy  
                              | EE 489 Renewable Energy |
| Other                        | EG 480 Prin. of Eng. Management & Leadership  
                              | EG 480 Prin. of Eng. Management & Leadership  

SENIOR LAB

Senior Lab may be selected from the following:

EE 425 Programmable Logic Controller Lab  
EE 426 Embedded System Design Lab  
EE 427 Power Electronics  
EE 428 Power Systems I  
EE 444 Embedded Logic Design Lab  
EE 445 Advanced Electronic Devices  
EE 446 Embedded System Design Lab  
EE 447 Programmable Logic Devices Lab  
EE 448 Power Electronics  
EE 449 Renewable Energy  
EE 450 Fundamentals of Fourier Optics  
EE 451 Microwave Engineering  
EE 452 Microwave Engineering  
EE 453 Antenna Design I  
EE 454 Digital Computer Architecture  
EE 455 Embedded System Design  
EE 456 Fiber Optic Communication Systems  
EE 457 Embedded System Design  
EE 458 Radar Systems  
EE 459 HDL Logic Synthesis  
EE 460 Embedded System Design  
EE 461 Power Semiconductor Devices  
EE 462 Advanced Electronic Devices  
EE 463 Power Systems I  
EE 464 Power Systems II  
EE 465 Advanced Digital Signal Processing  
EE 466 Power Electronics  
EE 467 Synthesis of Active & Passive Networks  
EE 468 Power Electronics  
EE 469 Signal Integrity  
EE 470 Embedded System Design  
EE 471 Wireless Communication  
EE 472 Digital Control Systems  
EE 473 Advanced Communication Systems  
EE 474 Advanced Digital Signal Processing  
EE 475 Embedded System Design  
EE 476 Synthesis of Active & Passive Networks  
EE 477 Advanced Communication Systems  
EE 478 Power Electronics  
EE 479 Renewable Energy  
EE 480 Prin. of Eng. Management & Leadership  
EE 481 Electrical Machines  
EE 482 Switch Mode Power  
EE 483 Power Systems I  
EE 484 Power Systems II  
EE 485 Power Distribution & Utilization  
EE 486 Power Electronics  
EE 487 Synthesis of Active & Passive Networks  
EE 488 Illumination Engineering  
EE 489 Renewable Energy  
EE 490 HDL Logic Synthesis  
EE 491 Computer Networks  
EE 492 Advanced Electronic Devices  
EE 493 Power Systems I  
EE 494 Power Systems II  
EE 495 Advanced Digital Signal Processing  
EE 496 Power Electronics  
EE 497 Synthesis of Active & Passive Networks  
EE 498 Illumination Engineering  
EE 499 Renewable Energy  
EG 480 Prin. of Eng. Management & Leadership  
EG 481 Electrical Machines  
EG 482 Switch Mode Power  
EG 483 Power Systems I  
EG 484 Power Systems II  
EG 485 Power Distribution & Utilization  
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