

Curriculum

| Classification | Subject No. | Subject Name | Lecture:Lab: Credit (Homework) | Semester | Remark |
|------------------------------------|-------------|--|--------------------------------|-------------|------------------|
| General Courses | CC 010 | Special Lecture on Leadership | 1:0:0(0) | Spring·Fall | |
| | CC 500 | Scientific Writing | 3:0:3(4) | Spring·Fall | |
| | CC 510 | Introduction to Computer Application | 2:3:3(10) | Spring·Fall | |
| | CC 511 | Probability and Statistics | 2:3:3(6) | Spring·Fall | |
| | CC 512 | Introduction to Materials and Engineering | 3:0:3(3) | Spring·Fall | |
| | CC 513 | Engineering Economy and Cost Analysis | 3:0:3(6) | Fall | |
| | CC 522 | Introduction to Instruments | 2:3:3(8) | Fall | |
| | CC 530 | Entrepreneurship and Business Strategies | 3:0:3(6) | Fall | |
| | CC 020 | Ethics and Safety I | 1:0:0 | Spring·Fall | |
| Mandatory Major Courses | SPE510 | Space Mission and Orbit Analysis | 3:0:3(6) | Spring | |
| | SPE520 | Introduction to Spacecraft Engineering | 3:0:3(6) | Fall | planning to open |
| Elective Major Courses (Essential) | SPE530 | Spacecraft Mechanical Systems | 3:0:3(3) | Fall | planning to open |
| | SPE532 | Spacecraft Thermal Control | 3:0:3(6) | Spring | |
| | SPE536 | Spacecraft Power System Design | 3:0:3(6) | Fall | |
| | SPE538 | Spacecraft Onboard Computer System | 3:0:3(6) | Spring | |
| | SPE540 | Spacecraft Communication System | 3:0:3(6) | Fall | |
| | SPE542 | Spacecraft Control System | 3:0:3(6) | Spring | |
| | SPE546 | Spacecraft Propulsion System | 3:0:3(6) | Fall | |
| | SPE560 | Space Observation Payloads and Applications I | 3:1:3(6) | Spring | |
| | SPE562 | Space Observation Payloads and Applications II | 3:0:3(6) | Fall | |
| | SPE564 | Spacecraft Optical Systems | 3:0:3(6) | Spring | |
| | SPE566 | Space Remote Sensing I | 3:0:3(6) | Spring | |
| | SPE568 | Space Remote Sensing II | 3:1:3(6) | Fall | |
| Elective Major Courses (Elective) | CS530 | Operating System | 3:0:3(6) | Spring·Fall | |
| | EE413 | Networking Design and Programming | 3:1:3(6) | Spring | ** |
| | EE421 | Wireless Communication Systems | 3:0:3(6) | Spring | ** |
| | EE432 | Digital Signal Processing | 3:0:3(6) | Fall | ** |
| | EE535 | Digital Image Processing | 3:0:3(6) | Spring | |
| | EE542 | Microwave Engineering | 3:1:3(6) | Fall | |
| | EE567 | Photovoltaic Power Generation | 3:0:3(6) | Spring | |
| | EE571 | Advanced Electronic Circuits | 3:0:3(6) | Fall | |
| | EE581 | Linear Systems | 3 : 0 : 3 (6) | Spring | |
| | EE594 | Power Electronics Systems | 3:0:3(6) | Fall | |

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| Elective Major Courses (Elective) | EE681 | Nonlinear Control | 3 : 0 : 3 (6) | Fall | |
| | IE525 | Project Management | 3:1:3(4) | Spring | |
| | IE634 | Reliability and Maintenance Engineering | 3:0:3(3) | Spring | |
| | MAE500 | Mathematical Methods in Mechanical Engineering | 3:0:3(6) | Spring | |
| | MAE502 | Introduction to Finite Element Method | 3:0:3(4) | Spring | |
| | MAE505 | Measurement Instrumentation | 3 : 1 : 3 (6) | Fall | |
| | MAE512 | Advanced Heat Transfer | 3:0:3(6) | Fall | |
| | MAE518 | Rocket System Engineering | 3:0:3(6) | Fall | |
| | MAE542 | Mechanics of Composite Materials | 3:0:3(6) | Fall | |
| | MAE550 | Advanced Dynamics | 3 : 0 : 3 (6) | Fall | |
| | MAE551 | Linear Vibration | 3:0:3(6) | Spring | |
| | MAE553 | Robot Dynamics | 3:0:3(6) | Spring · Fall | |
| | MAE561 | Linear System Control | 3 : 0 : 3 (6) | Spring | |
| | MAE563 | Microprocessor Application | 2 : 3 : 3 (6) | Fall | |
| | MAE566 | Spacecraft Trajectory Guidance and Control | 3:0:3(6) | Spring | |
| | MAE595 | Introduction to Optimal Flight Control | 3 : 0 : 3 (6) | Spring | |
| | MAE597 | Spacecraft Attitude Dynamics and Control | 3:0:3(6) | Spring | |
| | MAE726 | Equilibrium Hypersonic Aerothermodynamics | 3 : 0 : 3 (6) | Spring | |
| | MAE728 | Reentry Aerothermodynamics | 3 : 0 : 3 (6) | Fall | |
| | MAE761 | Nonlinear System Control | 3 : 0 : 3 (6) | Spring | |
| | MAE860 | Special Topics in Propulsion and Combustion | 3 : 0 : 3 (6) | Fall | |
| | MAE890 | Special Topics in Aerospace Engineering | 3 : 0 : 3 (6) | Spring · Fall | |
| | PH481 | Astrophysics | 3:0:3(4.5) | Fall | ** |
| | PH441 | Introduction to Plasma Physics | 3:0:3(4.5) | Fall | ** |
| | PH622 | Geometrical Optics | 3:0:3(4.5) | Spring · Fall | |
| Research | SPE960 | Thesis (Master Student) | | | |
| | SPE980 | Thesis (Ph.D. Student) | | | |
| | SPE966 | Seminar (Master Student) | 1 : 0 : 1 | | planning to open |
| | SPE986 | Seminar (Ph.D. Student) | 1 : 0 : 1 | | |

** : Undergraduate and Master's co-subject