

| STUDENT NAME _____ Z# _____ ADVISOR _____ ADMITTED _____ | | | | | | | | | | | |
|--|----|-----------------------------------|---|--------|--------|------------------|----|---|--|--------|--------|
| Freshman Year | | | | | | | | | | | |
| First Semester | Cr | Course Title | Prerequisites/Corequisites | Sem/Yr | Status | Second Semester | Cr | Course Title | Prerequisites/Corequisites | Sem/Yr | Status |
| Remedial | | | | | | Remedial | | | | | |
| CHEM 210 | 3 | Gen Chemistry | PRQ: MATH 110, or MATH 155, or MATH 229 or Placement; CHEM 110, or Placement or consent CRQ: CHEM 212. | | | COMS 100 | 3 | Fund of Oral Comm. | None | | |
| CHEM 212 | 1 | Gen Chemistry Lab | CRQ: CHEM 210 | | | ENGL 203 (≥C) | 3 | Rhetoric & Comp II | PRQ: ENGL 103 (≥C) | | |
| ENGL 103 (≥C) | 3 | Rhetoric & Comp I | None | | | or ENGL 204 (≥C) | | Rhetoric and Composition, Accelerated Researched Writing in the Domains | PRQ: Placement only through English Core Competency Examination or a score of 30 or higher on the ACT combined English/Writing Test. | | |
| MATH 229 (≥C) | 4 | Calculus I | PRQ: MATH 155 (≥C) or Placement | | | MATH 230 (≥C) | 4 | Calculus II | PRQ: MATH 229 (≥C) | | |
| UEET 101 | 1 | Intro to Engineering | None | | | MEE 270 | 3 | Engr Graphics | CRQ: MATH 155 or MATH 229 | | |
| GE:CCA | 3 | | | | | PHYS 253 (≥C) | 4 | Fund of Physics I (Lab Included) | CRQ: MATH 229 | | |
| Sophomore Year | | | | | | | | | | | |
| First Semester | Cr | Course Title | Prerequisites/Corequisites | Sem/Yr | Status | Second Semester | Cr | Course Title | Prerequisites/Corequisites | Sem/Yr | Status |
| ECON 260 or ECON 261 | 3 | Microeconomics or Macroeconomics | Sophomore Standing (Recommended) | | | CSCI 240 | 4 | Computer Prog. In C++ | PRQ: MATH 110 or 155 or 206 or 210 or 211 or 229; or consent | | |
| ISYE 250 | 2 | Int Lean System Eng (F) | PRQ: MATH 110 or consent | | | ELE 210 or | 3 | Engr Circuit Analysis I | PRQ: MATH 230(≥C) & PHYS 273(≥C) | | |
| ISYE 350 | 3 | Prin of Mfg Proc (F) | PRQ: CHEM 210, MATH 229 & PHYS 253 | | | TECH 175/175A | 4 | Electronic Fundamentals | PRQ: MATH 155 (≥C), PHYS 150A or PHYS 210 | | |
| MATH 232 | 4 | Calculus III | PRQ: MATH 230 (≥C) | | | ISYE 220 | 3 | Eng. Economy (FS) | PRQ: MATH 210, 211 or 229 | | |
| PHYS 273 | 4 | Fund of Physics II (Lab Included) | PRQ: PHYS 250A or PHYS 253 CRQ: Math 230 | | | ISYE 335 | 3 | Probability & Statistics for Eng. (FS) | PRQ: MATH 230 | | |
| | | | | | | MATH 336 | 3 | Ordinary Diff Equation | PRQ: MATH 230 | | |
| Junior Year | | | | | | | | | | | |
| First Semester | Cr | Course Title | Prerequisites/Corequisites | Sem/Yr | Status | Second Semester | Cr | Course Title | Prerequisites/Corequisites | Sem/Yr | Status |
| ISYE 370 | 3 | Op Res: Det Models (F) | PRQ: MATH 232 | | | ISYE 310 | 3 | Wrk Meas & Design (S) | CRQ: ISYE 335 or STAT 350 or UBUS 223 | | |
| ISYE 410 | 3 | Human Factor Engr (F) | PRQ: PHYS 253 & ISYE 335 or STAT 350 or UBUS 223 | | | ISYE 371 | 3 | Op Res: Prob Mod (S) | PRQ: ISYE 335 | | |
| MEE 209 or | 4 | Engr Mech Stats & Dyn (F) | PRQ: MATH 230 & PHYS 253 | | | ISYE 430 | 3 | Quality Control (S) | PRQ: ISYE 335 or STAT 350 or UBUS 223 | | |
| MEE 210/*211 | 6 | Engr Mechanics I / II | PRQ: MATH 229≥C, PHYS 253 ≥C * PRQ: MATH 230≥C and MEE 210 | | | ISYE 435 | 3 | Exp. Design for Eng. (S) | PRQ: ISYE 335 | | |
| PSYC 102 | 3 | Intro to Psychology | None | | | TECH ELEC II | 3 | Select from Group | See back side of this document | | |
| TECH ELEC I | 3 | Select from Group | See back side of this document | | | | | | | | |
| Senior Year | | | | | | | | | | | |
| First Semester | Cr | Course Title | Prerequisites/Corequisites | Sem/Yr | Status | Second Semester | Cr | Course Title | Prerequisites/Corequisites | Sem/Yr | Status |
| ISYE 440 | 3 | Prod Plan & Control (F) | PRQ: ISYE 335 or UBUS 223 or STAT 350 CRQ: ISYE 370 or OMIS 327 | | | ISYE 450 | 3 | Lean Mfg Systems (S) | PRQ: ISYE 250 or consent | | |
| ISYE 460 | 3 | Fac Plan & Design (F) | CRQ: ISYE 370 and ISYE 350 | | | ISYE 495 | 3 | Senior Design Prj | See catalog | | |
| ISYE 480 | 3 | Sim Mod & Analy (F) | PRQ: ISYE 335 or STAT 350 or UBUS 223, & CSCI 240 & ISYE 371; or Consent | | | TECH ELEC IV | 3 | Select from Group | See back side of this document | | |
| ISYE 492 | 1 | Senior Design Proposal | See catalog | | | TECH ELEC V | 3 | Select from Group | See back side of this document | | |
| TECH ELEC III | 3 | Select from Group | See back side of this document | | | GE:CCA | 3 | | | | |

| <i>ELECTIVES (15)</i> | | |
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| Group - Select 6 semester hours from below - Remaining 9 semester hours non-required ISYE 300 or 400 level courses | | |
| Course Code | Course Title | Prerequisites |
| ACCY 206 | Introductory Financial Accounting (3) | Completion of 24 or more semester hours of course work and a grad (\geq C) or better in OMIS 259 or equivalent. Not Open to students with credit in ACCY 288 |
| ACCY 207 | Introductory Cost Management (3) | ACCY 206 or equivalent |
| ACCY 288 | Fundamentals of Accounting (3) | Sophomore Standing. |
| BIOS 311 | Functional Human Anatomy (4) | Sophomore Standing or above |
| COMS 302 | Introduction to Organizational Comm. Theory (3) | None |
| COMS 361 | Business and Professional Communication (3) | COMS 100 |
| or ECON 301 | Labor Problems (3) | ECON 260 |
| ECON 361 | Intermediate Macroeconomics (3) | ECON 261 |
| ECON 386 | Environmental Economics (3) | ECON 260 |
| MATH 240 | Linear Algebra and Applications (4) | MATH 232 |
| MATH 360 | Model Building in Applied Mathematics (3) | MATH 230 |
| MATH 380 | Elementary Combinatorics (3) | MATH 230 |
| MATH 434 | Numerical Linear Algebra (3) | PRQ: MATH 232; MATH 239 or MATH 240; and CSCI 230 or CSCI 240 or approved equivalent |
| MATH 435 | Numerical Analysis (3) | MATH 232, MATH 239 or MATH 240, and CSCI 230, CSCI 240, or approved equivalent. |
| MATH 439 | Applied Mathematics For Sciences and Engineering (3) | MATH 232 and MATH 336 |
| MGMT 333 | Principles of Management (3) | PSYC 102 and junior or senior standing. |
| OMIS 351 | Information Systems in Organizations (3) | Consent of department |
| OMIS 442 | Quality Management (3) | Consent of department |
| PSYC 345 | Cognitive Psychology (3) | At least sophomore standing and PSYC 102, or consent of department |
| or PSYC 372 | Social Psychology (3) | At least sophomore standing and PSYC 102, or consent of department |
| STAT 470 | Introduction to Probability Theory (3) | MATH 232 and STAT 350, or consent of division. CRQ: MATH 240 or consent of division |
| STAT 473 | Statistical Methods and Models I (3) | MATH 211 and STAT 301, or STAT 350, or consent of division. CRQ: STAT 473A. |
| STAT 473A | Statistical Computing Packages (1) | MATH 211 and STAT 301, or STAT 350, or consent of division. CRQ: STAT 473 |
| STAT 474 | Statistical Methods and Models II (3) | STAT 473 and STAT 473A, or consent of division |
| STAT 478 | Statistical Methods of Forecasting (3) | STAT 473 or consent of division |

Any 300 or 400 level course in electrical, industrial and systems, or mechanical engineering offered in the College of Engineering and Engineering Technology with the exceptions of MEE 330/331 and required courses.