

2 Year Plan for Associate of Science in Engineering Science (Mechanical Engineering Specialization)

| Year 1 - Fall Semester | | | Year 1 - Spring Semester | | |
|---|------------|---------------------------------|--|------------|------------------------------------|
| Course | Credits | Pre/co-requisites | Course | Credits | Pre/co-requisites |
| ENS 100 Introduction to Engineering Science | 2 | CUNY Test (Read, Write Mth) | PHY 160 General Physics II (FSWR) | 3 | MTH 232, PHY 120, PHY 121, PHY 161 |
| PHY 120 General Physics I | 3 | MTH 230 or 231, PHY 121 | PHY 161 General Physics II Laboratory (FSWR) | 1 | PHY 160, PHY 120 |
| PHY 121 General Physics I Laboratory (RLPR) | 1 | MTH 230 or 231, PHY 120 | Flexible Core - FUSR | 3 | (It varies) |
| MTH 231 Analytical Geometry and Calculus I (RMQR) | 3 | MTH 123 (A) or MTH 130, MTH 229 | ENS 220 Introduction to Computer Engineering | 4 | ENS 136 |
| ENS 136 Computer-aided Engineering I | 2 | ENS 100, MTH 123 or higher | ENG 151 College Writing (RECR) | 3 | ENG 111 |
| ENG 111 Introduction to College Writing (RECR) | 3 | CUNY Test (Read, Write) | MTH 232 Analytical Geometry and Calculus II (STEM) | 3 | MTH 230 or 231, MTH 229 |
| MTH 229 Calculus Computer Laboratory | 1 | MTH 231 | | | |
| TOTAL | 15 credits | | TOTAL | 17 credits | |
| Year 2 - Fall Semester | | | Year 2 - Spring Semester | | |
| Course | Credits | Pre/co-requisites | Course | Credits | Pre/co-requisites |
| FWGR | 3 | (It varies) | Choice 4 credits (CHM or ECO or ENS 362) | 4 | (It varies) |
| ENS 310 Thermodynamics | 4 | PHY 160 or PHY 230 | ENS 110 Engineering Graphics | 2 | CUNY Test (Read, Write Mth) |
| Flexible Core - FWGR | 3 | (It varies) | Flexible Core - FCER | 3 | (It varies) |
| Flexible Core - FISR | 3 | (It varies) | CSC 270 Introduction to Scientific Computing | 4 | MTH 230 or MTH 231 |
| ENS 221 Digital Electronics Laboratory | 2 | ENS 220 | | | |
| TOTAL | 15 credits | | TOTAL | 13 credits | |

NOTE – This is the ideal course of study. Students who do not test into MTH 123 or higher will need to focus on math classes and general education requirements until they have met the necessary prerequisites. See advisor for details.