

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM)

- I. General Education:** A total of eight semester hours (8 SH) of course may double count towards General Education and/or Major Requirements. General Education courses are identified with an asterisk (*).
- II. Science, Technology, Engineering, and Mathematics (STEM) Second Academic Concentration Requirements:.....18 SH**
- A. Science:** Select a minimum of four semester hours (4 SH) from the following:
- | | |
|--|------------|
| BIO 1201 or equivalent* (<i>Prereq: ND</i>) | 3 SH (F;S) |
| BIO 1202 or equivalent* (<i>Prereq: ND</i>) | 3 SH (F;S) |
| BIO 1203 or equivalent* (<i>Prereq: ND</i>) | 2 SH (F;S) |
| CHE 1101 or equivalent* (<i>Prereq: ND. Pre/co-req: CHE 1110</i>) | 4 SH (F;S) |
| CHE 1102 or equivalent* | 4 SH (F;S) |
| <i>(Prereq: ND, CHE 1101, 1110; Pre/Co-req: CHE 1120)</i> | |
| PHY 1103 or equivalent* (<i>Prereq: ND. Co-req: MAT 1020 or 1025</i>)..... | 4 SH (F;S) |
| PHY 1104 or equivalent* (<i>Prereq: ND, PHY 1103</i>) | 4 SH (F;S) |
- B. Technology:** Select a minimum of six semester hours (6 SH) from the following:
- Any TEC, GRA, PHO, INT or IND course 2000 level or higher
- C. Engineering:** Select a minimum of three semester hours (3 SH) from the following:
- | | |
|---|------------|
| IND 2301 Model Making..... | 3 SH(F;S) |
| IND 3120 Materials and Processes II (<i>Prereq: IND 2000</i>) | 3 SH (F;S) |
| TEC 3738 Statics and Strength of Structures | 3 SH (F;S) |
| <i>(Prereq: MAT 1020, PHY 1103, TEC 1708, 1728, 2758, 3039)</i> | |
| TEC 4607 Wind & Hydro Power Technology | 3 SH (F;S) |
| <i>(Prereq: TEC 1708, 1728, 2029, 2601, 2718, 3638)</i> | |
| TEC 4608 Photovoltaic System Design and Construction | 3 SH (F;S) |
| <i>(Prereq: TEC 1708, 1728, 2029, 2601, 2718, 3638)</i> | |
| TEC 4618 Sustainable Building Design and Construction..... | 3 SH (F;S) |
| <i>(Prereq: TEC 1708, 2718)</i> | |
| TEC 4628 Solar Thermal Energy Technology | 3 SH (F;S) |
| <i>(Prereq: TEC 1708, 1728, 2029, 2601, 2718, 3638)</i> | |
| TEC 4700 Biofuels Technology (<i>Prereq: TEC 3638</i>)..... | 3 SH (F;S) |
- D. Mathematics:** Select a minimum of three semester hours (3 SH) from the following:
- | | |
|--|------|
| Any MAT Course 1025 or higher | 4 SH |
| STT 2810 Introduction to Statistics* (<i>Prereq: MAT 1010</i>) | 3 SH |

Note: ND Prerequisite: Passing math placement test or successful completion of MAT 0010.

Other courses may be considered with consultation of the major advisor.

Contact Person: Dr. Jerianne Taylor
taylorjs@appstate.edu