

## SECOND ACADEMIC CONCENTRATION

### SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) (Technology Education Majors)

- 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 1101 or equivalent\*.....4 SH (F;S)
  - BIO 1102 or equivalent\*.....4 SH (F;S)
  - CHE 1101 or equivalent\*(*Pre/Co-requisite CHE 1110*).....4 SH (F;S)
  - CHE 1102 or equivalent\*.....4 SH (F;S)  
(*Prerequisite CHE 1101, 1110; Pre/Co-requisite CHE 1120*)
  - PHY 1103 or equivalent\*(*Co-requisite MAT 1020 or 1025*).....4 SH (F;S)
  - PHY 1104 or equivalent\*(*Prerequisite PHY 1103*).....4 SH (F;S)
- B. Technology:** Select a minimum six semester hours (6 SH) from the following:
- Any TEC, GRA 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 (*Prerequisite IND 2120, 2901*).....3 SH (S)
  - TEC 3738 Statics and Strength of Structures .....3 SH (F;S)  
(*Prerequisite MAT 1025, PHY 1104, TEC 1728, 2708, 2758, 3039*)
  - TEC 4607 Wind & Hydro Power Technology .....3 SH (F;S)  
(*Prerequisite TEC 1728, 2029, 2601, 2708, 2718, 3638*)
  - TEC 4608 Photovoltaic System Design and Construction .....3 SH (F;S)  
(*Prerequisite TEC 1728, 2029, 2601, 2708, 2718, 3638*)
  - TEC 4618 Sustainable Building Design and Construction.....3 SH (F;S)  
(*Prerequisite TEC 2708, 2718*)
  - TEC 4628 Solar Thermal Energy Technology .....3 SH (S)
  - TEC 4700 Biofuels Technology (*Prerequisite TEC 2601, 3638*).....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\* .....3 SH

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

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