SECOND ACADEMIC CONCENTRATION

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* (Prereq: ND) .........................................................3 SH (F;S)
- BIO 1202 or equivalent* (Prereq: ND) .........................................................3 SH (F;S)
- BIO 1203 or equivalent* (Prereq: ND) .........................................................2 SH (F;S)
- CHE 1101 or equivalent* (Prereq: ND. Pre/co-req: CHE 1110) .............4 SH (F;S)
- CHE 1102 or equivalent* .........................................................................4 SH (F;S)
- PHY 1103 or equivalent* (Prereq: ND. Co-req: MAT 1020 or 1025) ......4 SH (F;S)
- PHY 1104 or equivalent* (Prereq: ND, PHY 1103) .................................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 (Prereq: IND 2000) .....................3 SH (F;S)
- TEC 3738 Statics and Strength of Structures .................................3 SH (F;S)
  (Prereq: MAT 1020, PHY 1103, TEC 1708, 1728, 2758, 3039)
- TEC 4607 Wind & Hydro Power Technology ................................3 SH (F;S)
  (Prereq: TEC 1708, 1728, 2029, 2601, 2718, 3638)
- TEC 4608 Photovoltaic System Design and Construction ..............3 SH (F;S)
  (Prereq: TEC 1708, 1728, 2029, 2601, 2718, 3638)
- TEC 4618 Sustainable Building Design and Construction ..............3 SH (F;S)
  (Prereq: TEC 1708, 2718)
- TEC 4628 Solar Thermal Energy Technology ................................3 SH (F;S)
  (Prereq: TEC 1708, 1728, 2029, 2601, 2718, 3638)
- TEC 4700 Biofuels Technology (Prereq: TEC 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* (Prereq: MAT 1010) ..................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.

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