

## SECOND ACADEMIC CONCENTRATION

### SUSTAINABLE DESIGN AND TECHNOLOGY (Technology Education Majors)

- I. **General Education:** Three semester hours (3 SH) of courses may be applied to satisfy General Education requirements. General Education requirements are identified with an asterisk (\*).
- II. **Sustainable Design & Technology Second Academic Concentration:..... 18 SH**

#### A. Technology

**Select a minimum of three semester hours (3 SH) from the following:**

TEC 2029 Society and Technology*	3 SH (F;S)
TEC 2188 Transportation Systems & Devices	3 SH (F)
TEC 2601 Energy Issues and Technology*	3 SH (F;S)
SD 2400 Principles of Sustainable Development*	3 SH (F;S)
SD 2600 Science for Sustainability ( <i>Prerequisite MAT 0010 or placement test</i> )	4 SH (F;S)
TEC 2708 Construction Technology & Building Codes	3 SH (F;S)
TEC 2718 Building Mechanical Systems	3 SH (F;S)

#### B. Design

**Select a minimum of three semester hours (3 SH) from the following:**

TEC 1728 Architectural Drafting ( <i>Co/Pre-requisite TEC 2708</i> )	3 SH (F;S)
TEC 3728 Residential Architecture ( <i>Prerequisite MAT 1035, PHY 1104, TEC 1728, 2708, 2758, 3039</i> )	3 SH (F;S)
PLN 2410 Town, City, Regional Planning	3 SH (F;S)
IND 1010 CADD I: Imaging	3 SH (F;S)
INT 1300 Design & Built Environment	3 SH (F)

#### C. Engineering Oriented

**Select a minimum of 3 SH from the following:**

TEC 3604 Sustainable Transportation ( <i>Prerequisite TEC 2601, 3638</i> )	3 SH (F;S)
TEC 3605 Sustainable Resource Management ( <i>Prerequisite TEC 2029</i> )	3 SH (F)
TEC 3606 Sustainable Water & Wastewater Technology ( <i>Prerequisite TEC 2029</i> )	3 SH (S)
TEC 3638 Foundations of Appropriate Technology* ( <i>Prerequisite TEC 2029, 2601, ENG 2001</i> )	3 SH (F;S)
TEC 3748 Building Science ( <i>Prerequisite TEC 2708, 2718, MAT 1020</i> )	3 SH (F;S)
TEC 4607 Wind & Hydro Power Technology ( <i>Prerequisite TEC 1728, 2029, 2601, 2708, 2718, 3638</i> )	3 SH (F;S)
TEC 4608 Photovoltaic System Design & Construction ( <i>Prerequisite TEC 1728, 2029, 2601, 2708, 2718, 3638</i> )	3 SH (F;S)
TEC 4618 Sustainable Building Design & Construction ( <i>Prerequisite TEC 2708, 2718</i> )	3 SH (F;S)
TEC 4628 Solar Thermal Energy Technology	3 SH (S)
TEC 4700 Biofuels Technology ( <i>Prerequisite TEC 2601, 3638</i> )	3 SH (F;S)
TEC 4711 Computer Modeling of Renewable Energy Systems ( <i>Prerequisite TEC 2601, 3638</i> )	3 SH (F;S)

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

Contact Person: Mr. Jeff Tiller Chairperson,  
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