SOFTWARE ENGINEERING B.S. Degree
Effective Fall 2016 120 credits

UNIVERSITY OF WISCONSIN PLATTEVILLE
COMPUTER SCIENCE AND SOFTWARE ENGINEERING

Name_____ **Date Entered UWP** _____

SOFTWARE ENGINEERING REQUIREMENTS

MATHEMATICS—18 Credits
____ 4 **Math 2640, Calc. I * _____**
____ 4 **Math 2740, Calc. II * _____**
____ 4 Math 2840 Calc III _____
____ 3 **Math 2730, Discrete Math * _____**
____ 3 Math 4030, Statistical Methods_____

BASIC SCIENCES—12 Credits
____ 4 Phys 2240, Physics I _____
____ 4 Phys 2340, Physics II _____
____ 4 Lab Science - Non-physics _____

OTHER COURSES—11 Credits
____ 1 GE 1000, GE 1030 or UWP Studies 1010
____ 3 **ENGL 1130, Fr Comp. I * _____**
_____ 3 ENGL 1230, Fr Comp. II _____
____ 2 SPCH1010/1250/2250/3250_____
____ 1 HHP 1000, Fitness _____
____ 1 HHP 1xxx, Phy.Ed._____

HUMANITIES & SOCIAL SCIENCES—15/24 Credits
____ 3 Humanities Elective_____
____ 3 Fine Arts Elective_____
____ 3 History Elective_____
____ 3 ECON 2130 Macro or ECON 2230 Micro_____
____ 3 SocSci Elect (Not Economics)_____
____ (3) Intn'l Ed/ Intn'l Exch_____
____ (3) Ethnic Studies _____
____ (3) Gender Studies _____

FOREIGN LANGUAGES
_____ (4) _____
One year of high school foreign language with a grade of C or better satisfies the requirement.

Note: It is assumed credits listed with parentheses will be satisfied by taking a course that "double counts"

* Indicates required General Engineering Core Courses

All Students must have a G.P.A. of 2.00 or higher in all Software Engineering & Computer Science Courses.

Advising Record (Advisor to sign & date each semester)

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

MAJOR COURSE REQUIREMENTS

Grade Cred Course # Title

SOFTWARE ENGINEERING Req. Courses 25 Credits
____ 3 SE 2730, Intro to Software Engineering
____ 3 SE 3330, Intermediate Software Engrg
____ 3 SE 3430, Object-Oriented Analysis & Design
____ 3 SE 3730, Software Quality
____ 3 SE 3860, Software Maint & Reengineering
____ 1 SE 4110, Software Engineering Seminar
____ 3 SE 4130, Real-time Embed Systems Prog
____ 3 SE 4330, Software Engineering Project I
____ 3 SE 4730, Software Engineering Project II

COMPUTER SCIENCE Required Courses 18 Credits
____ 3 **CS 1430, Programming in C++ ***
____ 3 CS 2430, Obj-Oriented Prog & Data Strt I
____ 3 CS 2630, Obj-Oriented Prog & Data Strt II
____ 3 CS 3230, Computer Arch/Op Systems
____ 3 CS 3830, Data Com & Comp Networking
____ 3 CS 3840, Intro. to Computer Security

All Students must have a C- or better in all SE/CS Science Courses listed in BOTH categories above.

COMPUTER SCIENCE ELECTIVE 6 Credits
(Pick 2 of the following courses)
____ 3 CS 3030, Artificial Intelligence
____ 3 CS 3520, Prog Language Structures
____ 3 CS 3630, Database Design & Implementation
____ 3 CS 3920, Computer Graphics

APPLICATION DOMAIN Sequence 8-9 Credits
Select one of the following application domain sequences

Digital: Take 8 or 9 credits from the following:
_____ 1 EE 1020 Elect. Eng Projects & Tools
_____ 3 EE 1210 Circuit Modeling I
_____ 4 EE 3770 Logic and Digital Design
_____ 4 EE 3780 Introduction to Microprocessors

Engineering Management: Take 9 credits from the following:
_____ 3 IE 3430 Human Factors Engineering***
_____ 3 IE 3530 Operations Research I
_____ 3 IE 4430 Quality Engineering
_____ 3 IE 4540 Human Performance & System Des.
_____ 3 IE 4730 Engineering Management
_____ 3 IE 4750 Prin and Applic of Project Mgmt

*** Assumes BIOL 2340 is taken as the Basic Science Elective

ELECTIVES:
_____ _____ _____ _____
_____ _____ _____ _____
_____ _____ _____ _____

_____ _____ _____ _____