Bachelor of Engineering – Student entering 2022 Fall

☐ **Study Plan**   ☐ **Application for Candidacy (check one)**

Name: _____   ID:_____ Class:_____   Box S___   Email:_____

Major Concentration Field: <u>Software Engineering</u>   Secondary Concentration Field:_____

Please print or type. The primary purpose of this form is to lay out the courses required to complete your degree program and when you expect to take each of them. You may then use it to track your own progress to the degree. You should revise it as needed. Please indicate the term when you expect to take each course (e.g.,2021F,2022S,etc.).Roman numerals indicate the standard curriculum time schedule. If a choice of course is given for the requirement, circle the appropriate course number. For electives, fill in the course number. Any course taken elsewhere should be marked TR. An additional study plan will be required if any of you wish to receive a minor or a second degree.

Term	Course	Credits	Grade
	TERM I		
_____	CH 115 General Chemistry Laboratory	3.0	_____
_____	CH 117 General Chemistry Laboratory	1.0	_____
_____	ENGR 116 Introduction to Programming	3.0	_____
_____	ENGR 111 Intro to Engineering Design	4.0	_____
_____	MA 121 Differential Calculus	2.0	_____
_____	MA 122 Integral Calculus	2.0	_____
_____	CAL 103 *Writing & Communication Colloquium*	3.0	_____
	TERM II		
_____	Science Elective[2] _____	3.0	_____
_____	ENGR 122 Engineering Design II	2.0	_____
_____	MA 125 Vectors and Surfaces	2.0	_____
_____	MA 126 Calculus of Multivariables	2.0	_____
_____	MGT 103 Intro to Entrepreneurial Thinking	2.0	_____
_____	PEP 111 Mechanics	3.0	_____
_____	CAL105 *Knowledge, Nature, Culture*	3.0	_____

Term	Course	Credits	Grade
	TERM III		
_____	ENGR 211 Statics & Intro to Eng Mech	4.0	_____
_____	ENGR 245 Circuits and Systems	3.0	_____
_____	MA 221 Differential Equations	4.0	_____
_____	PEP 112 Electricity and Magnetism	3.0	_____
_____	SSW 215 Individual Software Engineering	3.0	_____
	TERM IV		
_____	SSW 315 Obj Based Software Dev	3.0	_____
_____	ENGR 212 Design of Dynamical Systems	4.0	_____
_____	ENGR 234 Thermodynamics	3.0	_____
_____	Humanities[1] _____	3.0	_____
_____	Science Elective Laboratory II[2] _____	4.0	_____

☐ Original   ☐ Revision   ☐ 2nd Degree

Student Signature: _____ Date:_____

Faculty Advisor Signature: _____ Date:_____

UG Records Auditor: _____ Date:_____

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Email:_____   Major Concentration Field: Software Engineering

Secondary Concentration Field: _____

Term	Course	Credits	Grade
	TERM V		
_____	SSW 345 Model Based Sfw Engineerin	3.0	_____
_____	ENGR 241 Prob and Stat with data sci	4.0	_____
_____	ENGR 311 Design with Materials	4.0	_____
_____	Humanities[1] _____	3.0	_____
_____	ISE 350 Logistics and Supply Chain Mgt.	3.0	_____
	TERM VI		
_____	SSW 322 Engineering Design VI	2.0	_____
_____	SSW 555 Agile Methods	3.0	_____
_____	SSW 564 Software Req Engineering	3.0	_____
_____	ISE 490 Machine Lrning and Data Mining	3.0	_____
		2.0	_____
_____	IDE 399[4] Eng. Econ & Proj. M Gt _____		
_____	General Elective[3] _____	3.0	_____

Term	Course	Credits	Grade
	TERM VII		
_____	SSW 567 Software Testing and QA	3.0	_____
_____	SSW 590 Dev Ops	3.0	_____
	IDE 401 Senior Innovation II	1.0	_____
_____	Technical Elective[6]_____	3.0	_____
_____	Humanities[1]_____	3.0	_____
_____	SSW 423 Senior Design _____	3.0	_____
	TERM VIII		
_____	SSW 424 Senior Design VIII	3.0	_____
_____	SSW 533 Software Est and Metrics	3.0	_____
_____	SYS 581 Sys Eng Arch	3.0	_____
_____	Humanities[1]_____	3.0	_____
_____	General Elective[3]_____	3.0	_____
_____	IDE 402[4] Senior Innovation III	1.0	_____

Additional Courses

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

1. Humanities Requirement- Four additional humanities classes. One of those must be an upper level humanities course (300/400), and one must be a lower-level humanities course (100/200), they must cover two different disciplines within CAL. **2.** Software Engineering students can choose from a list of science electives courses. For the complete list of courses, please visit the Academic Catalog.

3. General Education Electives – chosen by the student –can be any approved 3 or 4 credit course used towards a minor, major concentration, research, independent study, language courses, or a course taken during an international experience.

4. IDE 399 can be taken concurrently with IDE 401 in Term VII as determined by the engineering program.

5. These courses are the Core major courses for the Software Engineering program.

6. Any 500 level EM, SSW, CS, ISE, SYS, CE course can count towards the Technical Elective requirement.

PE optional Courses[7]

Term	Course	Credits	Grade	Term	Course	Credits	Grade
_____	PE 200_____	PE	____	_____	PE 200_____	PE	____
_____	PE 200_____	PE	____	_____	PE 200_____	PE	____

7. PE Option: No credit or grades are awarded for P.E. classes. Participation in varsity and club sports may be used to satisfy the Physical Education optional courses.

☐ Original   ☐ Revision   ☐ 2nd Degree

Student Signature: _____ Date:_____

Faculty Advisor Signature: _____ Date:_____

UG Records Auditor: _____ Date:_____

Revised August 2021