

**SOFTWARE ENGINEERING DEGREE PLAN
AUDIO ENGINEERING SPECIALIZATION**

Total Credits for Bachelor's Degree in Software Engineering: 130

First Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	DAT110	Desktop Production Fundamentals	3	None
	MATH133	Calculus I	5	MATH116 or placement exam
	ENG100	English Composition	3	Placement Test
	SWE110	C Programming	4	High School Algebra

Second Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	DAT115	Desktop Audio Production	3	DAT110
	HUM120 or HUM130	Nature and History of Western Art Modern Art History	3	None
	MATH134	Calculus II	5	MATH133
	SWE212	Java Programming	4	SWE110

Third Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	DAT210	Sound Synthesis and Orchestration	3	DAT115
	MATH235	Calculus III	5	MATH134
	SCI145	College Physics I	4	MATH133
	SWE220	UNIX/LINUX Programming Environment	4	SWE110

Fourth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	HUM122 or HUM125	World Music Music in Western Cultures	3	None
	HUM200	History of the Modern World	3	ENG100
	MATH377	Software Engineering Mathematics	3	MATH133, Co-requisite SWE310
	SCI245	College Physics II	4	SCI145
	SWE310	Data Structures and Algorithms	4	SWE110, Co-requisite MATH377

Fifth Term: Total 16 credits

✓	Class	Title	Cr	Prerequisite
	DAT220	Studio Recording I	3	DAT115
	ELE350	Digital Circuits and Systems	4	SCI245
	ENG210	Cultural Diversity in Lit.	3	ENG100 , HUM120 or 130, HUM122 or 125
	SWE340	Software Engineering Methods and Projects	3	SWE310
	SSC200	American Government	3	ENG100

Sixth Term: Total 17 credits

✓	Class	Title	Cr	Prerequisite
	DAT355	Game Audio	3	Consent of Instructor or DAT 350
	HUM227 or HUM230	Film History History of Animation	3	ENG100
	SWE315	Object Oriented Programming	4	SWE212, SWE310
	SWE350	Embedded Software Systems	4	SWE110, MATH133
	SSC332	Global Political Economics	3	HUM200, SSC200

Seventh Term: Total 17 credits

✓	Class	Title	Cr	Prerequisite
	DAT/SWE	Upper Division Technical Electives	2	
	DAT450	Music Software Development	3	SWE310
	ENG310 or ENG320	Classics of Western Drama Classics of World Drama	3	ENG210, HUM120 or 130, HUM 122 or 125 ENG210, HUM227 or 230
	HUM361	Contemporary Ethical Issues	3	HUM200, SSC200, ENG210
	SWE320	Operating Systems Concepts	3	SWE220, SWE310
	SWE351	Computer Architecture	3	SWE350, ELE350

Eighth Term: Total 17 credits

✓	Class	Title	Cr	Prerequisite
	HUM400	Gen Education Capstone Project	3	ENG310 or 320, SSC332, HUM361
	MATH478 or ELE313	Advanced Software Engineering Mathematics Advanced EE Mathematics	3	MATH235, MATH377 Consent of instructor or ELE312
	SWE341	Object Oriented Analysis and Design	4	SWE315
	SWE420	UNIX/LINUX Internals	4	SWE320
	SWE495	Senior Project	3	Senior Standing

**SOFTWARE ENGINEERING DEGREE PLAN
GAME ENGINEERING SPECIALIZATION**

Total Credits for Bachelor's Degree in Software Engineering: 130

First Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	MATH133	Calculus I	5	MATH116 or placement exam
	HUM120 or-HUM130	Nature and History of Western Art Modern Art History	3	None
	ENG100	English Composition	3	Placement Test
	SWE110	C Programming	4	High School Algebra

Second Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	HUM122 or HUM125	World Music Music in Western Cultures	3	None
	MATH134	Calculus II	5	MATH133
	SWE212	Java Programming	4	SWE110
	SWE220	UNIX/LINUX Programming Environment	4	SWE110

Third Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	MATH235	Calculus III	5	MATH134
	MATH377	Software Engineering Mathematics	3	MATH133, Co-requisite SWE310
	SCI145	College Physics I	4	MATH133
	SWE310	Data Structures and Algorithms	4	SWE110, Co-requisite MATH377

Fourth Term: Total 18 credits				
✓	Class	Title	Cr	Prerequisite
	HUM200	History of the Modern World	3	ENG100
	HUM227 or HUM230	Film History History of Animation	3	ENG100
	SCI245	College Physics II	4	SCI145
	SWE315	Object Oriented Programming	4	SWE212, SWE310
	SWE350	Embedded Software Systems	4	SWE110, MATH133

Fifth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ELE350	Digital Circuits and Systems	4	SCI245
	ENG210	Cultural Diversity in Lit.	3	ENG100 , HUM120 or 130, HUM122 or 125
	SWE320	Operating Systems Concepts	3	SWE220, SWE310
	SWE340	Software Engineering Methods and Projects	3	SWE310
	SWE447	GUI and Graphics Programming	4	SWE315

Sixth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	SWE341	Object Oriented Analysis and Design	4	SWE315
	SWE351	Computer Architecture	3	SWE350, ELE350
	SWE450	Animation	4	SWE447
	SSC200	American Government	3	ENG100
	SSC332	Global Political Economics	3	HUM200, SSC200

Seventh Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ENG310 or ENG320 or	Classics of Western Drama Classics of World Drama English 300-level elective	3	ENG210, HUM120 or 130, HUM 122 or 125 ENG210, HUM227 or 230
	HUM361	Contemporary Ethical Issues	3	HUM200, SSC200, ENG210
	MATH478 or ELE313	Advanced Software Engineering Mathematics Advanced EE Mathematics	3	MATH235, MATH377 Consent of instructor or ELE312
	SWE472	AI Game Programming	4	SWE447, May be taken with SWE473
	SWE473	Game Engine I	4	SWE450, May be taken with SWE472

Eighth Term: Total 14 credits				
✓	Class	Title	Cr	Prerequisite
	HUM400	Gen Education Capstone Project	3	ENG310 or 320, SSC332, HUM361
	SWE420	UNIX/LINUX Internals	4	SWE320
	SWE474	Game Engine II	4	SWE473
	SWE495	Senior Project	3	Senior Standing

**SOFTWARE ENGINEERING DEGREE PLAN
WIRELESS AND NETWORK ENGINEERING SPEICALIZATION**

Total Credits for Bachelor's Degree in Software Engineering: 130

First Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	MATH133	Calculus I	5	MATH116 or placement exam
	HUM120 or HUM130	Nature and History of Western Art Modern Art History	3	None
	ENG100	English Composition	3	Placement Test
	SWE110	C Programming	4	High Scholl Algebra

Second Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	HUM122 or HUM125	World Music Music in Western Cultures	3	None
	MATH134	Calculus II	5	MATH133
	SWE212	Java Programming	4	SWE110
	SWE220	UNIX/LINUX Programming Environment	4	SWE110

Third Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	MATH235	Calculus III	5	MATH134
	MATH377	Software Engineering Mathematics	3	MATH133, Co-requisite SWE310
	SCI145	College Physics I	4	MATH133
	SWE310	Data Structures and Algorithms	4	SWE110, Co-requisite MATH377

Fourth Term: Total 18 credits				
✓	Class	Title	Cr	Prerequisite
	HUM200	History of the Modern World	3	ENG100
	HUM227 or HUM230	Film History History of Animation	3	ENG100
	SCI245	College Physics II	4	SCI145
	SWE315	Object Oriented Programming	4	SWE212, SWE310
	SWE350	Embedded Software Systems	4	SWE110, MATH133

Fifth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ELE350	Digital Circuits and Systems	4	SCI245
	ENG210	Cultural Diversity in Lit.	3	ENG100 , HUM120 or 130, HUM122 or 125
	SWE320	Operating Systems Concepts	3	SWE220, SWE310
	SWE340	Software Engineering Methods and Projects	3	SWE310
	SWE341	Object Oriented Analysis and Design	4	SWE315

Sixth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	SWE351	Computer Architecture	3	SWE350, ELE350
	SWE422	Foundations of Computer Networks	4	SWE341
	SWE430	Advanced Java	4	SWE212
	SSC200	American Government	3	ENG100
	SSC332	Global Political Economics	3	HUM200, SSC200

Seventh Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ENG310 or ENG320	Classics of Western Drama Classis of World Drama	3	ENG210, HUM120 or 130, HUM 122 or 125 ENG210, HUM227 or 230
	HUM361	Contemporary Ethical Issues	3	HUM200, SSC200, ENG210
	MATH478 or ELE313	Advanced Software Engineering Mathematics Advanced EE Mathematics	3	MATH235, MATH377 Consent of instructor or ELE312
	SWE420	UNIX/LINUX Internals	4	SWE320
	SWE480	Wireless Software Engineering	4	SWE422

Eighth Term: Total 14 credits				
✓	Class	Title	Cr	Prerequisite
	HUM400	Gen Education Capstone Project	3	ENG310 or 320, SSC332, HUM361
	SWE	Upper Division Electives	4	
	SWE482	Wireless and Mobile Networks	4	SWE480
	SWE495	Senior Project	3	Senior Standing