

Software Engineering: Major Required Courses

COURSE CODE	COURSE TITLE	CREDIT HOURS	PREREQUISITE
CIS 222	Interactive Media	3	CIS 201
SWE 312	Software Construction & User Interface	3	SWE 202
MTH 211	Calculus II	4	MTH 104
CIS 304	Computer Architecture	3	MTH 105
SWE 301	Software Requirements Engineering	3	SWE 202
SWE 302	Software Architecture & Design	3	SWE 202
SWE 401	Software Quality Assurance	3	SWE 301
ISY 384	Information Security	3	ISY 102
SWE 414	Formal Methods in Software Engineering	3	SWE 202
PHY 103	Physics I	4	PHY 101
SWE 300	Software Process and Modeling	3	SWE 202

SWE 321	Advanced User Interface Design	3	CIS 222
SWE 402	Software Maintenance and Evolution	3	SWE 312
MTH 301	Linear Algebra	3	MTH 001
SWE 322	Advanced Web Programming	3	CIS 201
PHY 203	Physics II	4	PHY 103
SWE 415	Software Usability Engineering	3	SWE 202
SWE 411	Software Verification and Validation	3	SWE 312
SWE 421	Game Development	3	CIS 222
SWE 202	Introduction to Software Engineering	3	CIS 104
MTH 302	Differential Equations	4	MTH 211
SWE 413	Design Patterns	3	SWE 302