PRE-MAJOR REQUIREMENTS:
C- or better required and a minimum 3.0 average GPA (overall and within pre-major courses) required to apply for full major status.

1. CS 1030, Foundations of CS ______________________________(3)
2. CS 1410, Object-Orient. Prog. _____________________________(4)
3. CS 2420, Algorithms/Data Struct. ___________________________(4)
4. Math 1210, Calculus I (QR) ________________________________(4)
5. Math 1220, Calculus II (QR) ________________________________(4)

GENERAL EDU. REQUIREMENTS:
Honors options also accepted for WR2, CW, and AI requirements. See minimum grade requirements in handbook.

1. Wrtg 2010, Intermediate Writing (WR2) ______________________(3)
2. FA3600 or WRTG 4030 (CW) _________________________________(3)
3. American Institutions (AI) _________________________________(3)

Six Intellectual Exploration (IE) courses required. TWO must be upper division (3000-level or above), ONE must satisfy the Diversity requirement and ONE must satisfy the International requirement.

4. ART 1020, Basic Drawing (FF): ____________________________(3)
5. DES 2615, Intro to Design Thinking (FF): _____________________(3)
6. Humanities (HF): ________________________________ (3)
7. Humanities (HF): ________________________________ (3)
8. Social/Behavioral Science (BF): ____________________________ (3)
   • Upper Division (3000+ level IE)
   • Upper Division (3000+ level IE)
   • Diversity (DV)
   • International (IR)

MATH / SCIENCE ELECTIVES:
C- or better required in all math/ science courses.

1. Physics 2210, Physics I __________________________________________(4)
2. Math 2210, Calculus III (QR) ____________________________________(3)
3. Math 2270, Linear Algebra ______________________________________(4)
4. CS 3130, Eng Prob & Stats (QI) ________________________________(3)

EAE CORE REQUIREMENTS:
C- or better required in all EAE courses.

1. EAE 1050, Digital Content Creation ___________________________(3)
2. EAE 2350, Intro to Game Design ________________________________(3)
3. EAE 3010, Assets Pipeline ______________________________________(3)

See the CS Undergraduate Handbook online for complete details 3/10/17

The following requirements are restricted to FULL Majors:
C- or better required in all CS & EAE courses. CR/NC grades not allowed for any major requirement. 2.5 GPA (overall & within CS) required to graduate.

MAJOR REQUIREMENTS:

1. CS 2100, Discrete Structures _________________________________(3)
2. CS 3500, Software Practice I ________________________________(4)
3. CS 3505, Software Practice II ________________________________(3)
4. CS 3810, Computer Organization (QI) __________________________(4)
5. CS 4150, Algorithms (QI) ______________________________________(3)
6. CS 4400, Computer Systems (QI) ________________________________(4)

EAE REQUIREMENTS:

1. EAE 3660, Machimina _________________________________________(3)
2. EAE 3710, Traditional Game Development ________________________(3)
3. EAE 3720, Serious Game Development ____________________________(3)

AREA FOCUS ELECTIVES
Choose ONE class from each of the FOUR FOCUS AREAS (4 classes total – 12 to 13 hours):

Artificial Intelligence: CS 4300 (AI), CS 5140 (Data Mining), CS 5340 (NLP), CS5350 (Machine Learning) __________________________ (3)
Core/Fundamentals: CS 5150 (Adv Alg), CS 5460 (OS), CS 5470 (Compilers) _________________(3-4)

Human Centered Computing CS 3540 (HCI), CS 4530 (Mobile Apps), CS 4600 (Graphics), CS/EAE 4xxx (Game AI),
CS 5650 (Visual Perception) ________________________________(3)

Infrastructure: CS 3470 (Scripting), CS 4440 (Security), CS 4480 (Networking), CS 5540 (Database) __________________________ (3)

Choose 2 more classes from ANY of the FOCUS AREAS ABOVE (6 to 7 hours):
1. Area Focus Elective ____________________________________________ (3-4)
2. Area Focus Elective ____________________________________________ (3-4)

THEORY REstricted ELECTIVE
Choose ONE:

CS 3100, Models of Computation (QI) ____________________________(3)
   or
CS 3200, Scientific Computing ______________________________________(3)

CAPSTONE REQUIREMENT

1. EAE 4500, Senior Project I ______________________________________ (3)
2. EAE 4510, Senior Project II ______________________________________ (3)