ITWS/CSCI Dual Curriculum

Concentration in Web Technologies

Fall 2017

Semester I	**Semester II**
ITWS-1100 Introduction to Information Technology and Web Science CSCI-1100 Computer Science I MATH-1010 Calculus I BIOL-1010 Intro. to Biology BIOL-1015 Introduction to Biology Lab	CSCI-1200 Data Structures MATH-1020 Calculus II ITWS-1220 IT and Society (HASS SS) PHYS-1100 Physics I
Semester III	**Semester IV**
ITWS-2110 Web Systems Development CSCI-2200 Foundation of Computer Science CSCI-2500 Computer Organization Communication Design Elective (Conc.)	ITWS-2210 Intro to Human Computer Interaction (HASS H) ITWS-4500 Web Science Systems Development CSCI-2300 Introduction to Algorithms CSCI-2600 Principles of Software (Conc.)
Semester V (Summer)	**Semester VI (Fall or Spring)**
Assessment Elective (Conc.) Math Option II HASS Elective Science Option	ITWS-4310 Managing IT Resources CSCI-4380 Database Systems (CSCI option/capstone) HASS 2000+ Level Elective Math Option I
Semester VII	**Semester VIII**
ITWS-4100 Information Technology and Web Science Capstone CSCI-4430 Programming Languages (Conc.) CSCI-4440 Software Design and Documentation (Conc.) (CSCI option/capstone) HASS 2000+ Level Elective	CSCI-4210 Operating Systems (Conc.) CSCI-4220 Network Programming (Conc.) (CSCI option/capstone) CSCI-4150 Intro. to Artif. Intell. (Conc.) (CSCI option/capstone) HASS 4000 Level Elective

Communication Design Elective (one of):
>   COMM-2610 Introduction to Visual Communication
>   COMM-4460 Visual Design: Theory and Application
>   COMM-4520 Information Architecture
>   COMM-4650 Marketing Communication Design
>   COMM-4660 Visual Literacy

Assessment Elective (one of):
>   COMM-4420 Foundations of HCI Usability
>   COMM-4180 Studio Design in HCI (only when COMM-4420 is not offered)
>   ISYE-4760 Mathematical Statistics

Science Option:
A four-credit course chosen from the following: astronomy, biology, chemistry, earth and environmental science, and physics. The Pass/No Credit option cannot be used for this course. The course ERTH 1030 cannot be used to satisfy this requirement.

Mathematics Options:
Two additional courses in mathematics. Mathematics Option I must be one of the following courses: MATH 2010, MATH 4030, MATH 4040, MATH 4100, or MATP 4600. Mathematics Option II must be any course in MATH/MATP at the 2000 level or above (excluding MATH 2800). Independent study courses cannot be used to satisfy this option. The Pass/No Credit option cannot be used for these courses. Note that although some courses are cross-listed as both MATH and CSCI, if a course is used to fulfill the Mathematics Option requirement, it cannot also be used as a CS Option/Capstone course.

Computer Science (CS) Options and Computer Science Capstone:
For students doing a dual ITWS/CSCI the following courses fulfill these requirements:
CSCI-4150 Intro. to AI
CSCI-4380 Database Systems
CSCI-4220 Network Programming
CSCI-4440 Software Design and Documentation

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