

Information Technology and Web Science - Summer Arch

128 Credits

First Year

Fall			Spring		
	Concentration Course (see footnote 1 below)	4		Math Elective (see footnote 2 below)	4
ITWS 1100	Introduction to IT and Web Science	4		Physical Science Elective (see footnote 3 below)	4
CSCI 1100	Computer Science I	4	ITWS 1220	IT and Society	4
MATH 1010	Calculus I	4	CSCI 1200	Data Structures	4

Second Year

Fall			Spring		
	HASS Elective (see footnote 4 below)	4		HASS Elective (see footnote 4 below)	4
	Concentration Course (see footnote 1 below)	4		Technical Track Course #2 (see footnote 5 below)	4
	Technical Track Course #1 (see footnote 5 below)	4	ITWS 2210	Introduction to Human Computer Interaction	4
ITWS 2110	Web Systems Development	4	ITWS 4500	Web Science Systems Development	4

Third Year

Summer			Fall/Spring		
	HASS Elective (see footnote 4 below)	4		Technical Track Course #3 (see footnote 5 below)	4
	Free Elective	4		Life Science Elective (see footnote 6 below)	4
	Concentration Course (see footnote 1 below)	4		ITWS Technology Elective (see footnote 7 below)	4
	Concentration Course (see footnote 1 below)	4	ITWS 4310	Managing IT Resources	4

Fourth Year

Fall			Spring		
	Free Electives	4		Free Electives	4
	Concentration Course (see footnote 1 below)	4		HASS Elective (see footnote 4 below)	4
	Concentration Course (see footnote 1 below)	4		Concentration Course (see footnote 1 below)	4
	ITWS Capstone (see footnote 8 below)	3-4		Concentration Capstone Course (see footnote 1 below)	4
				ITWS Capstone (see footnote 8 below)	0-3

Additional Information

Co-terminal students would replace ITWS 4100 Information Technology and Web Science Capstone (see footnote 8 below) with ITWS 4980 - Special Projects, which will be the culminating experience. Only free electives and six credits of the HASS electives may be taken with the Pass/No Credit option.

If a student chooses to pursue a dual degree with Information Technology and Web Science as one of the degrees, the dual degree must be the area that is closest to the student's Concentration. For example, if a student's Concentration is Psychology, then the dual degree would need to be in Psychology.

Footnotes

1. The required concentration provides an opportunity for in-depth study of an ITWS application area. Concentration options include arts, computer networking, data science, law, information security, management information systems, medicine, psychology, web technologies and numerous others. In consultation with a faculty adviser, students may also design their own concentration through the selection of courses that match their individual interests. For a full list of concentrations and the required courses in each, see the ITWS website (itws.rpi.edu).
2. Any four-credit MATH or MATP course. Some concentrations require a specific math course to meet prerequisites for the courses in that concentration.
3. Any four-credit physics course (PHYS xxxx).
4. See HASS elective requirements in the HASS section of the Rensselaer catalog.
5. Each concentration is associated with a technical track consisting of three courses. Once a student selects a concentration, the student must then take the three technical track courses associated with that concentration. For a full list of the technical tracks, their courses, and their association with concentrations, see the ITWS website (itws.rpi.edu).
6. Any four-credit biology course (BIOL xxxx)
7. The ITWS Technology Elective is one of: CSCI 4380 - Database Systems, MGMT 4170 - Data Resource Management.
8. The ITWS Capstone requirement is met by following one of two tracks. Students choosing the Professional Track take ITWS 4100 - Information Technology and Web Science Capstone (*Credit Hours: 4*). Students choosing the Research track take ITWS 4990 - Senior Thesis (*Credit Hours: 3*) the first semester and also take ITWS 4990 - Senior Thesis (*Credit Hours: 3*) the following semester.