

Major: Information Sciences and Technology
Option: Design and Development

Entered Penn State Spring 2018

Total Credits: 125

IST courses have enforced prerequisites.
 1 credit of IST 495-IST Internship is required.

Semester 1	Credits	Semester 2	Credits
IST 110/110S <i>Information, People and Technology</i> ETM Course	3	IST 210 <i>Organization of Data</i> ETM Course	3
IST 140 <i>Introduction to Application Development</i> , OR CMPSC 121 <i>Introduction to Programming Techniques</i> , OR CMPSC 131 <i>Programming and Computation I: Fundamentals</i> ETM Course	3	IST 220 <i>Networking and Telecommunications</i> ETM Course	3
MATH 110 OR MATH 140 (GQ)	4	CAS 100 (GWS)	3
World Language 001	4	ENGL 15 OR ENGL 30 (GWS)	3
		World Language 002	4
Total Credits:	14	Total Credits:	16

Semester 3	Credits	Semester 4	Credits
IST 230 <i>Language, Logic and Discrete Math</i>	3	IST 261 <i>Application Development Design Studio I</i>	3
IST 242 <i>Intermediate and Object-Oriented Application Development</i>	3	STAT 200 (GQ)	4
ECON 102 OR ECON 104 OR ECON 14 (GS)	3	General Education Selection	3
World Language 003	4	General Education Selection	3
General Education Selection	3	General Education Selection	3
Total Credits:	16	Total Credits:	16

Semester 5	Credits	Semester 6	Credits
IST 311 <i>Object-Oriented Design and Software Applications</i>	3	Support of Option (can be IST 361 <i>Application Development Design Studio II</i> IF IST 261 <i>Application Development Design Studio I</i> is completed)	3
IST 331 <i>Foundations of Human-Centered Design</i>	3	IST 301 <i>Information and Organizations</i>	3
Support of Option Selection	3	ENGL 202C OR ENGL 202D (GWS)	3
General Education Selection	3	International Cultures (IL)	3
General Education Selection	3	General Education Selection	3
Total Credits:	15	Total Credits:	15

Semester 7	Credits	Semester 8	Credits
IST 4xx <i>Emerging Issues and Technologies</i>	3	IST 440W <i>IST Integration and Problem Solving</i>	3
IST 412 <i>The Engineering of Complex Software Systems</i> , OR IST 413 <i>Usability Engineering</i>	3	Support of Option Selection (400-level)	3
International Cultures (IL)	3	IST 411 <i>Distributed Object Computing</i> , OR IST 413 <i>Usability Engineering</i>	3
General Education Selection	3	US Cultures OR Elective	3
General Education Selection	1.5	Elective	2
Elective	3	General Education Selection	1.5
Total Credits:	16.5	Total Credits:	15.5