

RECOMMENDED ACADEMIC PLAN – INFORMATION SCIENCES AND TECHNOLOGY

Information Technology: Integration and Application

Semester I		Semester II	
*IST 110 Information, People and Technology	3	*IST 210 Organization of Data	4
CMPS 101 Introduction to Algorithmic Processes, or	3-4	Sciences GN	3
CMPS 121 Introduction to Programming Techniques GQ		Foreign Language	4
<i>Math 110 Techniques of Calculus I or 140 Calculus With Analytic Geometry I GQ</i>	4	<i>ECON 002 Introductory Microeconomic Analysis and Policy, 004 Introductory Macroeconomic Analysis and Policy, or 014 Principles of Economics GS</i>	3
Foreign Language or ENGL 015 Rhetoric and Composition or 030 Honors Freshman Composition GWS	3 - 4	ENGL 015 Rhetoric and Composition, 030 Honors Freshman Composition GWS	3
First-Year Seminar	1		
	14 -16		17
Semester III		Semester IV	
*IST 220 Networking and Telecommunications	3	IST 240 Introduction to Computer Languages	3
IST 230 Language, Logic, and Discrete Mathematics	3	<i>STAT 200 Elementary Statistics GQ</i>	4
Foreign Language	4	CAS 100 Effective Speech GWS	3
Humanities GH	3	Sciences GN	3
Arts GA	3	Social and Behavioral Science GS	3
	16		16
IST 495 Internship *			
Semester V		Semester VI	
IST 301 Information and Organizations	3	IST 331 Organization and Design of Information Systems: User and System Principles	3
Support of Option	3	IST 302 IT Project Management	3
GHA	3	Support of Option	3
Humanities GH	3	Foreign Cultures Requirement	3
Sciences GN	3	ENGL 202C Effective Writing: Technical Writing or 202D Effective Writing: Business Writing GWS	3
	15		15
Semester VII		Semester VIII	
^IST 4XX Emerging Issues and Technologies from college -approved list	3	IST 440W Information Sciences and Technology Integration and Problem Solving	3
IST 420 Fundamentals of Systems and Enterprise Integration	3	IST 421 Advanced Enterprise Integration: Technologies and Applications	3
Support of Option	3	Support of Option	3
Foreign Cultures Requirement	3	Elective	3
Arts GA	3	Elective	3
	15		15

Advising Notes

- **Bold type** require a grade of C or better.
- *Italics* indicates courses that satisfy both major and General Education requirements.
- **Bold Italics** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- US, IL, and US;IL are codes used to designate courses that satisfy University United States/International Cultures requirements.
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirements.

*Entry to major requirement.

Please note the following courses are only offered in the semester indicated:
IST 210–Spring, IST 220–Fall, IST 302–Spring, IST 420–Fall, IST 421–Spring

^IST 4XX: Select 3 credits from IST 402, 441, 446, 451, 452, 453, 454, 461, or 462.

Students must complete a 3-credit course in "United States Cultures (US)" and a 3-credit course in "International Cultures (IL)."

*Internship - IST 495: (1) Supervised work experience where the student is employed in an information science and technology position in industry, government or academia. IST students are required to complete one internship, but may complete three. For more information, contact IST Internship Coordinator, Jane Kochanov at jxs121@psu.edu.

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