

Integrated Science and Technology Core Course Requirements

<u>Course</u>	<u>Hrs.</u>	<u>Grade</u>
Connections/Communications		
ENG 101 Composition	3	_____
ENG 102/302 Comp. II	3	_____
OR ENG 201H		_____
IST 120 Connections I	2	_____
IST 220 Connections II	2	_____
Or ENG 354 (junior trans)	3	_____
CMM 103 Communication	3	_____

Foreign Language (6-12 hrs depending on HS background) 204 of language required

Environmental Science Majors are exempt

- 1) _____ 3 _____
- 2) _____ 3 _____
- 3) _____ 3 _____
- 4) _____ 3 _____

Capstone

- IST 490 Senior Project 3 _____
- IST 491 Senior Project II 3 _____
- Or IST 470 or approved hrs. ____ _____

<u>Course</u>	<u>Hrs.</u>	<u>Grade</u>
Science/Computing		
IST 111 or BSC 120	4	_____
IST 160 Intro. Program.	3	_____
IST 260 Instrumentation	3	_____
PHY 201 & 202 (Physics)	3,1	____, ____

Mathematics

<u>Course</u>	<u>Hrs.</u>	<u>Grade</u>
IST 131 Analytical II	4	_____
(prereq. ACT 23 or MATH 130/127 & 122)		
IST 230 Analytical III	4	_____
Choose one of the following:		
IST 231 Analytical IV	4 hrs.	
*300-400 Level Statistics	3 hrs.	
300-400 Level MTH	3 hrs.	
*BSC 417, MTH 345, EDF 417, MGT 420		

OR you can choose a mathematics minor (IST 131 & 230 = MTH 229)

Social Sciences (3 courses) _____

Must choose from **three** fields. Anthropology-any course, Economics-any course, History-any course, Criminal Justice-any course, Political Science-any course, Psychology-any course except 223 or 417, Geography any course except 101, 425, 429, 430 Sociology-any course except 344, 345, 445, WS 101

Literature (one course) _____

Classics 230, 231, 232, 233, 234, 235, 236; English - any 300-400 level course in literature only. (any writing course in English will **not** fill this requirement); Religious Studies 304, 310, 320, 325, 351; French 317, 318, 401, 402, 403, 404; Latin any 300-400 level course; German 301, 302, 417, 418; Spanish 411, 412, 413, 414, 415, 416

Humanities (one course) _____

Classics - any course except 230, 231, 232, 233, 234, 235, 236; Philosophy - any course; Religious Studies - any course except 304, 310, 320, 325, 351

Arts Appreciation (one course) _____

ART 112, MUS 142, THE 112 or approved elective

IST 301 Public Service _____ **UNI 101/HON 101** _____

MARSHALL PLAN Most courses used here can also be overlapped with the IST Core Requirements

International studies (**two** courses) _____

Multicultural studies (**one**) _____ Writing Intensive (**one**) _____

TOTAL HOURS REQUIRED: AT LEAST **128** – OF WHICH **48** MUST BE 300-400 LEVEL

TOTAL HOURS _____ 300-400 LEVEL HOURS _____

2009-10 ****GPA 2.0 is REQUIRED for graduation****

* You must meet with your advisor and get approval for the option that you choose for the second half of your capstone experience.

College of Science-Integrated Science & Technology

Computer and Information Technology Core Requirements

Course	Hrs.	Grade	Course	Hrs.	Grade
IST 163 Programming C++	3	_____	IST 365 Database Mgt.	3	_____
IST 263 Web Programming	3	_____	MGT 320 or IST 350	3	_____
IST 264 Hardware Technology	3	_____			
IST 362 Network Protocols	3	_____			

Choose an Area of Emphasis/Specialization Below

Computer and Information Technology Major-Computer Application Development Area of Emphasis

IST236 – Data Structures	3	_____	IST334 – Programming Languages	3	_____
IST238 – Algorithms	3	_____	IST423 – GIS & Data Systems	3	_____
IST303 – .NET Programming	3	_____	IST430 – E-Commerce	3	_____
IST332 – Software Engineering I	3	_____	Technical Elective _____	3	_____
IST333 – Software Engineering II	3	_____	Technical Elective _____	3	_____

Computer and Information Technology Major-Web Application Development Area of Emphasis

IST236 – Data Structures	3	_____	ART214 – Introduction to Design	3	_____
IST332 – Software Engineering I	3	_____	ART219 – Computer Skills for Art	3	_____
IST333 – Software Engineering II	3	_____	ART312 – Graph Design: Studio Skills	3	_____
IST430 – E-Commerce	3	_____	ART453 – Elec. Media in Vis. Arts	3	_____
IST431 – Advanced Web Dev.	3	_____	ART454 – Design for Multimedia	3	_____
			ART (Any Course) _____	3	_____

Instead of Pursuing a Graphics Art minor, you may substitute the ART courses with:

IST423 – GIS & Data Systems	3	_____
IST363 – Network Administration	3	_____
IST466 – Database Programming	3	_____
Technical Elective _____	3	_____
Technical Elective _____	3	_____

Computer and Information Technology Major-Computer Forensics Area of Emphasis

IST446 – Intro to Digital Evidence	3	_____	IST463 – Digital Evidence and Invest	3	_____
IST447 – Search and Seizure Techn	3	_____	CJ312. or CJ323	3	_____
IST448 – Forensic Uses/Digital Images	3	_____	CJ3xx-4xx – CJ Elective	3	_____
IST449 – Data Recovery and Analysis	3	_____	IST464 – Network Sec & CyberCrime	3	_____
IST363 – Network Administration	3	_____	Technical Elective _____	3	_____

Computer and Information Technology Major-Game Development Area of Emphasis

IST236 – Data Structures	3	_____	IST360 – Game Development I	3	_____
IST238 – Algorithms	3	_____	IST438 – Comp. Graphics for Gaming	3	_____
IST332 – Software Engineering I	3	_____	IST439 – Game Development II	3	_____
IST303 – .NET Programming	3	_____	IST460 – Game Development III	3	_____
ART454 – Design for Multimedia	3	_____	ARTxxx – 3D Animation (spTp currently)	3	_____
			Technical Elective _____	3	_____