

## ITIS Degree Options – Spring 2009

Traditional Concentration	Web Development Concentration	Software Engineering Concentration	Information Technology Concentration								
	ITIS 1210 Intro. To Web-Based Information Systems C	ITIS 1210 Intro. To Web-Based Information Systems C	ITIS 1210 Intro. To Web-Based Information Systems								
ITCS 1212 Intro. to Computer Science (plus lab)	ITCS 1212 Intro. to Computer Science (plus lab) C	ITCS 1212 Intro. to Computer Science (plus lab) C	ITCS 1212 Intro. to Computer Science (plus lab)								
ITCS 1215 Intro. to Computer Science II	ITCS 1215 Intro. to Computer Science II C	ITCS 1215 Intro. to Computer Science II C	ITCS 1215 Intro. to Computer Science II								
ITIS 2110 IT Infrastructure I: Design & Practice	ITIS 2110 IT Infrastructure I: Design & Practice C	ITIS 2110 IT Infrastructure I: Design & Practice C	ITIS 2110 IT Infrastructure I: Design & Practice								
ITCS 2175 Logic and Algorithms		ITCS 2175 Logic and Algorithms S									
ITIS 2211 Ethical Issues: Technology *	ITIS 2211 Ethical Issues: Technology *	ITIS 2211 Ethical Issues: Technology *	ITIS 2211 Ethical Issues: Technology *								
ITCS 2214 Data Structures	ITCS 2214 Data Structures C	ITCS 2214 Data Structures C									
ITCS 2215 Design and Analysis of Algorithms		ITCS 2215 Design and Analysis of Algorithms S									
ITIS 2300 Web-Based Application Development	ITIS 2300 Web-Based Application Development C	ITIS 2300 Web-Based Application Development C	ITIS 2300 Web-Based Application Development								
	ITIS 3105 Server-Side Applications & Data Management S										
	ITIS 3110 IT Infrastructure II: Design & Practice S		ITIS 3110 IT Infrastructure II: Design and Practice								
	ITIS 3130 Human-Computer Interaction C	ITIS 3130 Human-Computer Interaction C	ITIS 3130 Human-Computer Interaction								
	ITIS 3150 Rapid Prototyping & Interface Building C	ITIS 3150 Rapid Prototyping & Interface Building C									
ITCS 3160 Database Design & Implementation	ITCS 3160 Database Design & Implementation C	ITCS 3160 Database Design & Implementation C	ITCS 3160 Database Design & Implementation								
ITCS 3166 Introduction to Computer Networks											
ITIS 3200 Intro. to Information Security & Privacy	ITIS 3200 Intro. to Information Security & Privacy C	ITIS 3200 Intro. to Information Security & Privacy C	ITIS 3200 Intro. to Information Security & Privacy								
ITIS 3300 Software Requirements & Project Mgt.	ITIS 3300 Software Requirements & Project Mgt. C	ITIS 3300 Software Requirements & Project Mgt. C	ITIS 3300 Software Requirements & Project Mgt.								
ITIS 3310 Software Architecture and Design		ITIS 3310 Software Architecture and Design S									
ITIS 3320 Intro. to Software Testing & Assurance		ITIS 3320 Intro. to Software Testing & Assurance S	ITIS 3320 Intro. to Software Testing & Assurance								
ITCS 3688 Computers & Society	ITCS 3688 Computers & Society C	ITCS 3688 Computers & Society C	ITCS 3688 Computers & Society								
		ITIS 4155 Software Project Development S									
	ITIS 4166 Network-Based Application Development S										
	ITIS 4170 Advanced Client Applications S										
	ITIS 4221 Secure Programming & Penetration Testing S										
			INFO 3211 Technical Support								
PHIL 1105 Critical Thinking	PHIL 1105 Critical Thinking	PHIL 1105 Critical Thinking	PHIL 1105 Critical Thinking								
Three (3) ITIS/ITCS Electives at 3000/4000 level	One (1) ITIS/ITCS Elective at 3000/4000 level	One (1) ITIS/ITCS Elective at 3000/4000 level	Two (2) ITIS/ITCS Electives at 3000/4000 level								
15 hours of concentration in a major outside CCI	15 hours of concentration in a major outside CCI	15 hours of concentration in a major outside CCI	Minor or 21 hours of concentration in a major outside CCI								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">MATH 1120 Calculus</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">or</td> <td style="width: 50%;">MATH 1241 Calculus I</td> </tr> <tr> <td>MATH 2164 Matrices</td> <td>MATH 1242 Calculus II</td> </tr> <tr> <td>STAT 1220 Statistics I</td> <td>MATH 2164 Matrices</td> </tr> <tr> <td>STAT 2223 Statistics III</td> <td>STAT 2122 Prob &amp; Stat</td> </tr> </table>	MATH 1120 Calculus	or	MATH 1241 Calculus I	MATH 2164 Matrices	MATH 1242 Calculus II	STAT 1220 Statistics I	MATH 2164 Matrices	STAT 2223 Statistics III	STAT 2122 Prob & Stat		MATH 1100 College Alg. or MATH 1103 Pre-Calculus
MATH 1120 Calculus	or		MATH 1241 Calculus I								
MATH 2164 Matrices			MATH 1242 Calculus II								
STAT 1220 Statistics I			MATH 2164 Matrices								
STAT 2223 Statistics III		STAT 2122 Prob & Stat									
		STAT 1220 Statistics I									
ENGL 1101 English Composition			ENGL 1101 English Composition								
ENGL 1102 Writing in the Academic Community			ENGL 1102 Writing in the Academic Community								
ENGL 2116 Technical Writing			ENGL 2116 Technical Writing								
			ENGL 4181 Writing User Docs or ENGL 4183 Editing Tech Docs								
			ENGL 4182 Digital Publishing or COMM 3141 Org. Comm.								
			COMM 2100 Introduction to Communication Theory								
COMM 2105 Small Group Communications	COMM 2105 Small Group Communications	COMM 2105 Small Group Communications	COMM 2105 Small Group Communications								
LBST-1XXX (General Education)	LBST-1XXX (General Education)	LBST-1XXX (General Education)	LBST-1XXX (General Education)								
LBST-2101 (General Education)	LBST-2101 (General Education)	LBST-2101 (General Education)	LBST-2101 (General Education)								
LBST-2102 (General Education)	LBST-2102 (General Education)	LBST-2102 (General Education)	LBST-2102 (General Education)								
LBST-2211 (see ITIS 2211)	LBST-2211 (see ITIS 2211)	LBST-2211 (see ITIS 2211)	LBST-2211 (see ITIS 2211)								
Science (General Education)	Science (General Education)	Science (General Education)	Science (General Education)								
Science with Lab (General Education)	Science with Lab (General Education)	Science with Lab (General Education)	Science with Lab (General Education)								
Social Science (General Education)	Social Science (General Education)	Social Science (General Education)	Social Science (General Education)								
Free electives (5-8 hours)	Free electives (2-5 hours)	Free electives (2-5 hours)	Free electives (2-5 hours)								

## ITIS Degree Options – Spring 2009

\* Fulfills both the General Education requirement for an LBST 22XX course dealing with ethical issues and cultural critique and the departmental requirement for a course in technology ethics. Hours counted as General Education.

C – Indicates a core course required in both the Web Development and Software Engineering tracks.

S – Indicates a specialization course required in one track but not the other.

**Traditional Concentration.** A technology-centered general degree with high-level programming and mathematics requirements.

**Information Technology Concentration.** A people-centered general degree with fewer programming and mathematics courses but more emphasis on technical writing, teamwork, and communications.

**Web Development Concentration.** A programming-rich specialist degree emphasizing development of Web-based applications.

**Software Engineering Concentration.** A programming-rich specialist degree emphasizing best practices in overall software development.

The Web Development and Software Engineering concentrations are built around a 36-hour set of common core classes and a 15-hour set of track-specific classes that are mutually exclusive.

All options require: (1) Development of a secondary strength area outside the College of Computing and Informatics by completing a minor/21 hours for the IT concentration or 15 hours for all other concentrations. This area of study requires the approval of the student's advisor.  
(2) Critical thinking (PHIL 1105) and ethics courses (LBST 2211 (EI:T) sub-section called ITIS 2211)