

Information Technology

BS in Information Technology (Fall 2018 & Later)

Minimum 120 credits required for Bachelor's degree

Foundational Core (30-32 Credits)

Grade

FYXX 125 ¹	First Year Seminar	
CTL-125	Critical Thinking	
MA _____	Foundational Core Math course ³	
Choose 1 course from each area *		
² Natural/Physical Science		
Literature		
History	HI-100 or HI-102	
Arts/Design/Comm.		
Philosophy		
Theology/Relig		
Social/Behavioral Science ⁴		

Human Journey Seminars: Great Books in CIT (6 Credits)

CIT 201	CIT Seminar I	
CIT 202	CIT Seminar II	

Liberal Arts Explorations (9 Credits Total)

**Student must complete one course in each area.
(see list on Registrar's Website - checksheets)**

Humanistic Inquiry (3 credits)	
Social and Global Awareness	
Scientific Literacy (3 credits) ⁵	

* See list of courses.

¹(Requires Grade C or higher)

²Science/Natural Science courses includes

approved Math and Computer Science courses. Students are required to take at least one course in Biology, Chemistry, or Physics in the Foundational or Liberal Arts Exploration Core. CS and MA courses may be used as a Science/Natural Science in either the Foundational Core **or** as a requirement in the LAE Core but not in both categories.

³ MA109 or MA110 may count in this area

⁴ EC101 or EC202 is recommended

⁵ MA131 may count in this area

Note: MA 006 and ESL courses **will not** count towards the 120 credit graduation requirement.

Approved Study Abroad courses may be used to satisfy requirements for the foundational core or a Thematic Liberal Arts Theme.

A maximum of 8 Applied Music credits may be applied towards graduation

51 credits INFORMATION TECHNOLOGY

REQUIRED CURRICULUM		Grade
CS 110	Introduction to CS(may be waived)	
CS 111	Introduction to Structured Programming	
CS 112	Data Structures	
CS 113	Discrete Structures	
CS 215	Comp. Systems Organization/Assembler	
CS 232	Human-Computer Interaction	
CS 233	Visual Basic	
CS 261	Web Design	
CS 311	Database Design	
CS 312	Software Engineering	
CS 318	Project Course	
CS 319	Computer Ethics	
CS 331	Design of Multimedia Applications	
CS 338	Systems Analysis and Design	
CS 339	Networking and Data Communications	
CS 390	System Administration or Maintenance Internship	

Required Supporting Courses		Grade
MA 109	Algebra for Business and Sciences	
MA 110	Business Calculus	
MA 131	Elementary Statistics **	
MGT 101	Organizational Management	
MUST HAVE GRADE OF "C" OR BETTER		

General Electives (number of credits vary)		Grade

Checksheet Key

T	Course transferred and Requirement satisfied
W	Requirement waived
TW	Course transferred and Requirement waived

** Counts for Scientific Literacy LAE

NOTE: For Cybersecurity Concentration CS368 (CyberSecurity Principles) replaces CS232 and CS367 (Network Security) replaces CS331

WELCH COLLEGE OF BUSINESS
BS in Information Technology (Fall 2018 & Later)

The computer science field has experienced dramatic growth and technological development within the last decade. The 21st century is measuring up to be even more dynamic for the computer science field. The Sacred Heart University Computer Science Department addresses the need for qualified professionals with a variety of skills. The Computer Science department has three degree choices: Computer Science, Information Technology and Game Development and Design. Within the Computer Science and Information Technology majors students can select a Cybersecurity option. The information technology major addresses data processing and information management issues. Practical applications toward business related problems, resource management, economic feasibility studies, and analysis of computer systems are a sample of the subjects studied.

The curriculum is designed to provide the IT major with the latest up-to-date information. Courses in C programming, C++, VB, Multimedia, Database design, Networking, Web Design, and Software Engineering, are just a few of the subjects offered. Students may also complete a degree program with a BS and MSCIS in five years. Students may opt for the Computer Science or Game Development and Design Major (**see separate sheet**).

The Information Technology major is required to successfully complete 51 credit hours. The remaining credits required for graduation are within the liberal arts core curriculum.

SUGGESTED FOUR YEAR SEQUENCE OF STUDY: (if CS 110 is waived..otherwise CS 110 is taken semester 1 and CS 111 follows in semester 2)
Information Technology Major

YEAR 1	SEMESTER 1	YEAR 1	SEMESTER 2
FYXX125 OR CTL-125 MA 109 CS 111 HI 100 OR 102	First Year Seminar OR Critical Thinking Algebra for Business and Sciences Intro to Structured Programming Western Civ I or II Foundational Core	CTL-125 OR FYXX125 MA 110 CS 112 CS 113	Critical Thinking OR First Year Seminar Business Calculus Data Structures Discrete Structures Foundational Core
YEAR 2	SEMESTER 3	YEAR 2	SEMESTER 4
CIT 201 MA 131 CS 232 MGT 101	Human Hourney Seminar Elementary Statistics (AE Literacy) Human Computer Interaction Organizational Management Foundational Core	CIT 201 CS 215 CS 233	Human Hourney Seminar Computer Systems Organ. Visual Basic LA Exploration Inquiry Foundational Core
YEAR 3	SEMESTER 5	YEAR 3	SEMESTER 6
CS 331 CS 311	Design of Multimedia Applications Database Design Foundational Core Free Elective Foundational Core	CS 312 CS 261	Software Engineering Web Design Free Elective Free Elective Free Elective
YEAR 4	SEMESTER 7	YEAR 4	SEMESTER 8
CS 318 CS 338 CS 390	Project Course Systems Analysis and Design Systems Administration or Maintenance Internship Free Elective Free Elective	CS 319 CS 339	Computer Ethics (LAE Awareness) Networking & Data Communications Free Elective Free Elective Free Elective