Information systems is a combination of information technology, people’s activities, and using that technology to support operations, management, and decision-making. In a broad sense Information systems refers not only to the information and communication technology an organization uses but also to the way in which people interact with this technology in support of business processes.

Information systems majors at Pitt-Bradford takes courses in Networking, Web Application, Web Databases, Programming and Systems Analysis to acquire the skills necessary so they can apply them to a business problem or situation. Students receive hands-on experiences by taking computers and servers apart and rebuilding them, learning all about networking on the CISCO equipment, constructing dynamic websites, and working with Microsoft’s current product set, including SQL Server and Visual Studio.

**Required Skills:**
- Active Listening
- Math
- Critical Thinking
- Research & Reporting
- Communication (Written & Oral)
- Computer Knowledge
- Problem Solving

**Possible Employers:**
- Corporations
- Industries
- Consulting Firms
- School Systems
- Marketing Firms
- Banks
- Federal or State Government
- Media Production Company

**Employment Opportunities:**
Information Systems Developer  
Network Administrator/Manager  
Analyst/Programmer  
Information Systems Manager  
On-Line Services Manager  
Applications Programmer I  
Operating Systems Programmer  
Auditor  
Internet Developer  
Operations Manager  
Communications Specialist  
Internet Marketing Analyst  
Operations Researcher  
Engineering Specialist  
Inventory Control Specialist  
Computer Security Analyst  
Inventory Manager  
Plant Manager  
Investment Analyst  
Product Development Manager  
Consultant  
Product Forecaster/Estimator  
CQI Production Manager  
Logistics Manager  
Production Line Manager  
Data Communications Analyst  
Management Analyst  
Production Scheduler/Planner  
Data Security Analyst  
Market Research Analyst  
Purchasing Agent/Manager  
Distribution Manager  
Quality Assurance Analyst  
Materials Manager  
Medical Systems Designer  
Records Management Analyst  
Relocation Analyst  
Mortgage Researcher  
Technical Sales Rep

**Professional Organizations:**
- Association for Information Systems (www.aisnet.org)
- Association for Information Technology Professionals (www.aitp.org)
- The Data Management Association (DAMA) (www.dama.org)
- Information Systems Audit and Control Association (www.isaca.org)
- The Information Systems Security Association (ISSA) (www.issa.org)

**Find Out More About Careers in Information Systems At:**
- Computing Degrees and Careers (www.computingcareers.acm.org)
- Tech-Centric (www.tech-centric.net)
- Occupational Outlook (www.stats.bls.gov/oco/ocos042.htm)
- Career Services (www.upb.pitt.edu/career.aspx)
Information Systems (AS) – Curriculum Guide

Student Name: 
Advisor: 

GENERAL EDUCATION REQUIREMENTS

COMPETENCIES
(Minimum grade of C- required in all competencies)

WRITING

☐ ENG 0101 English Composition I
☐ ENG 0102 English Composition II

MATHEMATICS

☐ MATH 0098 Algebra II or MATH 0110 Fundamentals of Mathematics

HUMAN EXPERIENCE COURSES
Six courses (18-19 credits) over the four human experience areas with at least one course in each area, and at least one course must be a physical or life science with laboratory

ARTS & LETTERS (Choose ONE Literature, Creative, Fine or Performing Arts, or Language course)

☐

BEHAVIORAL, ECONOMIC, & POLITICAL SCIENCES
(Choose ONE Behavioral, Economic or Political Science course)

☐

HISTORY, CULTURES, & PHILOSOPHICAL INQUIRY
(Choose ONE History, Cultures or Philosophical Inquiry course)

☐

PHYSICAL OR LIFE SCIENCES (Choose ONE Physical OR Life Science, must include a lab)

☐

☐ Lab

ADDITIONAL GE ELECTIVE
(Choose TWO General Education Course)

☐

☐

*MATH 0098 does not meet the mathematics competency at the Pittsburgh campus

MAJOR COURSE REQUIREMENTS

CIST 0150 Fundamentals of Programming
CIST 0161 Technology of Computing
CIST 0162 Survey of Information Technology
CIST 0163 Introduction to Web Programming
CIST 0165 Networking I
CIST 0166 Networking II
CIST 0205 Web Application Development
CIST 0209 Introduction to Web Databases
CIST 0261 Computer Security
CIST 0262 Systems Administration

Information Systems
Minimum of 60 credits required. Additional electives may be required.

According to your Degree Progress Report in MY.PITT.EDU upon successful completion of the current term:

You will have EARNED _________ credit hours
You NEED _________ for 60 credit hours required for graduation.

NOTE: This guide is unofficial. Completing the requirements on this sheet does NOT guarantee degree completion. Official degree completion information can be found in MY.PITT.EDU. Contact your Faculty Advisor and/or the Registrar’s Office with questions or concerns.