The Computer and Information Technology (CIT) program prepares technical professionals for applications of computer and information technology. Those professionals typically work in an information technology (IT) or information systems (IS) department in organizations ranging from manufacturing, service, and healthcare to education and government.

**MATHEMATICS & STATISTICS: 6-9 HRS**
- MAT 1441G Calculus and Analytic Geometry;  
  OR MAT 2120G Finite Mathematics
- BUS 2810 Business Statistics I;  
  OR MAT 2250G Elementary Statistics

**PHYSICAL SCIENCES: 8 HRS**
- PHY 1151G Principles of Physics I
- PHY 1152G Principles of Physics I Laboratory
- PHY 1161 Principles of Physics II
- PHY 1162 Principles of Physics II Laboratory

**TECHNICAL: 36 HRS**
- AET 4163 Computer Database in Technology;  
  OR MIS 4200 Systems and Database Analysis, Design and Development
- AET 4814 Digital Media Strategy
- EGT 1323 Computers for Applied Engineering and Technology;  
  OR BUS 1950 Computer Concepts and App. for Business
- EGT 2324 Electricity and Electronic Controls
- EGT 3763 Automation and Data Capture
  OR EGT 3663 CNC & Rapid Prototyping
- AET 4103 Robots and Control Systems
- CIT 1813 Introduction to Programming (C++)
  OR AET 3163 Computer Programming in Tec (C++)
  OR *MIS 2000 Intro to Business Logic and Programming Skills
- CIT 2523 Data Communication Technology I
  OR *MIS 3200 Networking Fundamentals
- CIT 2803 Operating Systems for Computer Technology
  OR CIT 4803 Operating Systems for Computer Technology
- CIT 4749 Capstone Project (3 hours, graduation requirement)
- CIT 4813 Front End and Mobile Website Development
  OR *MIS 3530 Business Web Site Design
- CIT 4823 Big Data and Cloud Computing
  OR *OSC 4820 Business Analytics and Data Mining
- CIT 4833 Intrusion Detection and Prevention
  OR *MIS 4850 Systems Security
  OR *MIS 4860 Ethical Hacking and Network Defense

**MANAGEMENT: 16 HRS**
- ECN 2800G Economics of Social Issues;  
  OR EON 2801G Principles of Macroeconomics
- AET 3414 Selection and Management of Applied Engineering Projects
- OPD 4835 Supervision in Organizations;  
  OR OPD 4820 Change Strategies in Organizations
- Six (6) semester hours from:
  - OPD 4825 Ethical Behavior in Organizations
  - OPD 4865 Diversity in Organizations
  - OPD 4870 Coaching and Mentoring for Critical Thinking in the Workplace
  - OPD 4880 Productive Work Teams
  - BUS 3500 Management Information Systems

**ELECTIVES: 21 HRS**
- AET 1363 Graphic Communication Technologies
- AET 2123 Digital Photography and Imaging
- AET 3063 3D Modeling
- AET 3203 Computer Numerical Control Programming
- AET 3343 Cross Media Technologies
- AET 3920 Independent Study
- AET 4123 Advanced Digital Photography
- AET 4275 Industrial Internship
- AET 4333 Trends in Digital Media Technology
- AET 4353 Multimedia Production Management
- AET 4823 Facility Security
- AET 4863 Packaging Design Technologies
- AET 4865 e-Books and e-Publishing Technologies
- AET 4953 Color Management Technologies
- AET 4970 Special Topics in Technology
- CIT 3153 Data Communication Technology II
- CIT 3303 Introduction to Gaming, Animation and Simulation
- CIT 3313 3D Modeling for Gaming, Animation and Simulation
- CIT 4753 Emerging Video Technologies
- CSM 2170 Computer Science I (Python)
- CSM 2670 Computer Science II (Java)
- CSM 4170 Programming for Mobile Devices
- EGT 3103 Robots and Control Systems
- EGT 3663 CNC & Rapid Prototyping
- EGT 3763 Automation and Data Capture

* Only students pursuing Minor in Management Information Systems are allowed/required to take marked courses

**TOTAL MAJOR HOURS: 89-91 HRS**