

BACHELOR OF
SCIENCE




COMPUTER SCIENCE WITH A CONCENTRATION IN SOFTWARE DEVELOPMENT

Tiffin University's software development concentration is designed for students who wish to work with computer science and technology in all facets of an organization with emphasis on important soft skills, comprehensive technology skills, teamwork and a global workforce. The curriculum includes a computer science core of business, hardware and software, practical experience and a further concentration in software development and/or network architecture. Classes will teach students to analyze computer science with research and apply findings to solve real world problems. The curriculum is designed to highlight important certifications in the field and emphasize the application of computers and technology in the business organization. Career paths for a student can include computer programmers, technology support specialists, system analysts, database administrators, network and systems administrators, software developers, web developers and information system managers.

With this concentration, students will be able to explain and illustrate the reasons for the modeling and design of computer-based systems and interpret and apply object-oriented programming language.

Classes will prepare students for several certifications. The need for professional certifications has been identified through various studies and responses with our industry partners. The program encourages students to sit for as many professional certifications as possible, proving that they have demonstrated knowledge up to industry standards. Tiffin University is a Certiport Authorized Testing Center and has the ability to administer any Microsoft Certifications available. These certifications, partnered with a degree in computer science will allow our students to have a competitive advantage when it comes to job placement.



According to the Bureau of Labor Statistics and the latest data available for software developers, the need is going to increase 24% from the year 2016-2026. This increased need is due to the number of applications, mobile applications and software that is being developed for the latest technologies and needs in the era of the "Internet of Things".

Computer Science Core: 48 hours

- MKT151 Introductory Marketing
- CST155 Introduction to Operating Systems
- ACC210 Financial Accounting
- MGT201 Management of Organizations
- CST201 Introduction to Programming
- LAW211 Business Law I
- ECO222 Principles of Microeconomics
- CST230 Networking Fundamentals
- CDS244 Cyber Security
- CST280 Database I
- CST285 Spreadsheets and Analytics
- FIN301 Business Finance
- CST412 IT Project Management
- CST460 Research in Computer Science
- CST470 Internship
- MGT495 Organizational Strategy

Concentration: Software Development: 18 hours

- CST212 Systems Analysis and Design
- CST255 Internet and Website Development
- CST301 Advanced Programming Concepts
- CST312 Information Systems for Managers
- CST380 Database II
- CST450 Programming for Application Development



Tiffin University

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