

INFORMATION TECHNOLOGY: APPLICATION SOFTWARE, B.TECH.

Major Code: 1502

Current students majoring in this program are currently completing their course of study. Moving forward, content from this program has been transitioned to the closely associated Computer Support Services Concentration within our Information Technology B.Tech. program. Interested students are strongly encouraged to explore that option.

Enterprises need information to create competitive advantages in today's dynamic business environment. Business people require tools like the Internet, the World Wide Web, laptops, smart phones, cloud computing, wireless technology, multimedia, social media, and e-commerce. Typically, business people do not need to understand how the technology works; they simply want it to do the job for them. Information Technology (IT) builds on the foundation of Computer Information Systems, but it has a broader scope. IT seeks to facilitate the business processes of the organization. The information technologist not only knows how technology work but is equally interested in people and their applied use of technology to increase productivity.

Your educational experience will be supported by a robust information technology infrastructure that support the latest software applications for game development, gaming, graphics, animation, web development, databases, voice and data communications, programming, server administration, multimedia development, virtualization, cloud computing, and information security. Students receive practical hands-on experience in the design and development of computer systems and applications using relevant programming languages, tools, and methodologies in an excellent academic lab environment.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Implement scalable, multi-tier, object-oriented relational database driven application as member of a team.
- Utilize formal development methodologies to design and develop software applications.
- Utilize a formal project management methodology to plan and track development progress.
- Analyze economic feasibility of an IT product.

Curriculum Requirements

A minimum of 120 credits is required for degree completion.

Code	Title	Credits
CITA 110	Intro Information Technology	3
CITA 120	Computer Concepts & Op Sys	3
CITA 140	Introduction to Programming	3
CITA 150	Data Management Techniques	3
CITA 200	Data Communications Networking	3
CITA 210	Visual Languages & Devel Tools	3
CITA 220	Systems Analysis	3
CITA 340	Data Base Concepts	3

CITA 350	Object-Oriented Systems	3
CITA 395	Internship Orientation Seminar	1
CITA 405	Project Management	3
CITA 450	Applied Database Manager	3
CITA 460	Organizational & End User IS	3
CITA 480	Internship Information Tech	12
CITA 100-200 Level Electives as Advised		3
CITA 300-400 Level Electives as Advised		3
BSAD 116	Business Organization & Mgmt	3
BSAD 300	Management Communications	3
CITA, ACCT, or BSAD 300-440 as advised		9
CITA, ACCT, or BSAD 100-200 as advised		6
GNED 100	First Year Experience	2
COMP 101	Composition and Research	3
COMP 310	Advance Tech Communication	3
SUNY General Education Mathematics (and Quantitative Reasoning) as Advised		3
Liberal Art & Science Electives as advised		21
General Electives as advised		12
Total Credits		120

Sample Course Sequence

Course	Title	Credits
Year 1		
Fall		
CITA 110	Intro Information Technology	3
CITA 140	Introduction to Programming	3
CITA Elective as advised		3
COMP 101	Composition and Research	3
SUNY General Education Mathematics (and Quantitative Reasoning) as Advised		3
GNED 100	First Year Experience	2
Credits		17
Spring		
CITA 120	Computer Concepts & Op Sys	3
CITA 150	Data Management Techniques	3
BSAD 116	Business Organization & Mgmt	3
Liberal Arts & Sciences Electives as advised		6
Credits		15
Year 2		
Fall		
CITA 200	Data Communications Networking	3
CITA 210	Visual Languages & Devel Tools	3
CITA 220	Systems Analysis	3
100-200 CITA, ACCT or BSAD Lower Division Elective as advised		3
Liberal Arts & Sciences Elective as advised		3
Credits		15
Spring		
CITA 340	Data Base Concepts	3
100-200 CITA, ACCT or BSAD Lower Division Elective as advised		3
COMP 310	Advance Tech Communication	3
Liberal Arts & Sciences Electives as advised		6
Credits		15
Year 3		
Fall		
300-400 CITA Upper Division Elective as advised		3
BSAD 300	Management Communications	3
300-400 ACCT, BSAD or CITA Upper Division Elective as advised		3

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Liberal Arts & Sciences Electives as advised	6
Credits	15
Spring	
CITA 350 Object-Oriented Systems	3
300-400 ACCT, BSAD or CITA Upper Division Elective as advised	6
General Electives as advised	6
Credits	15
Year 4	
Fall	
CITA 395 Internship Orientation Seminar	1
CITA 405 Project Management	3
CITA 450 Applied Database Manager	3
CITA 460 Organizational & End User IS	3
General Electives as advised	6
Credits	16
Spring	
CITA 480 Internship Information Tech	12
Credits	12
Total Credits	120