

## Comprehensive Information Technology Major Bachelor of Science

Fall 2022: 7/5/2022

	Cr Hrs	Cr Rec	Cr Bal	Prerequisites/ Periodicity		Cr Hrs	Cr Rec	Cr Bal	Prerequisites/ Periodicity
General Education Requirements	45-49				<b>IT List</b>				
College of Business Core Requirements	36-48				ITC 330 - Introduction to Networking <sup>2</sup>	3			ITC 235 <sup>1</sup>
<b>Requirements for Information Technology Major</b>					ITC 362 - Mobile App Development <sup>2</sup>	3			ITC 260 <sup>1</sup>
ITC 235 - Computer Hardware and Operating Systems	3				ITC 366 - Introduction to .Net Development with C# <sup>2</sup>	3			ITC 260 <sup>1</sup>
ITC 260 - Introduction to Java Programming	3				ITC 370 - Introduction to Web Development <sup>2</sup>	3			ITC 260 <sup>1</sup> / Fall
ITC 295 - Database Management Systems Concepts and Design	3				ITC 394 - Cooperative Education in Information Technology and Cybersecurity	1-3			Acceptance into cooperative education program, permission <sup>1</sup>
ITC 388 - Information Systems Analysis and Design	3			ITC 235 or ITC 260 or ITC 295 or concurrent enrollment <sup>1</sup>	ITC 397 - Topics in Information Technology and Cybersecurity	1-3			Permission <sup>1</sup>
<b>Complete one of the following options:</b>					ITC 420 - IT Project Management	3			Spring <sup>1</sup>
<b>Option 1: Application Development</b>					ITC 430 - Advanced Networking <sup>2</sup>	3			ITC 330 <sup>1</sup> / demand
ITC 466- Advanced .Net Development with C# <b>OR</b>	3			ITC 295, ITC 366, and ITC 388 or concurrent enrollment <sup>1</sup>	ITC 466 - Advanced .Net Development with C# <sup>2</sup>	3			ITC 295, ITC 366, and ITC 388 or concurrent enrollment <sup>1</sup>
ITC 475 - Advanced Web Development	3			ITC 295, ITC 370, and ITC 388 or concurrent enrollment <sup>1</sup> / Spring	ITC 475 - Advanced Web Development <sup>2</sup>	3			ITC 295, ITC 370, and ITC 388 or concurrent enrollment <sup>1</sup> / Spring
Complete 9 hours from the following and if not used above:					ITC 494 - Internship in Information Technology and Cybersecurity	1-3			Permission <sup>1</sup>
ITC 362 - Mobile App Development	3			ITC 260 <sup>1</sup>	ITC 495 - Advanced Database Management Systems Concepts <sup>2</sup>	3			ITC 295 <sup>1</sup> / demand
ITC 366 - Introduction to .Net Development with C#	3			ITC 260 <sup>1</sup>	ITC 528 - Database Application Development with Oracle <sup>2</sup>	3			ITC 260 & ITC 295 <sup>1</sup>
ITC 370- Introduction to Web Development	3			ITC 260 <sup>1</sup> / Fall	ITC 535 - Machine Learning	3			Demand <sup>1</sup>
ITC 466 - Advanced.Net Development with C# <sup>3</sup>	3			ITC 295, ITC 366; & ITC 388 or concurrent enrollment <sup>1</sup>	ITC 545 - Data Infrastructure for Data Analytics	3			ITC 295 & QBA 237 <sup>1</sup>
ITC 475 - Advanced Web Development <sup>3</sup>	3			ITC 295, ITC 370; & ITC 388 or concurrent enrollment/Spring <sup>1</sup>	ITC 555 - Data Visualization	3			QBA 237 <sup>1</sup>
ITC 528 - Database Application Development with Oracle	3			ITC 260 & ITC 295 <sup>1</sup>	ITC 560 - Fundamentals of Cybersecurity <sup>2</sup>	3			ITC 330 <sup>1</sup> / demand
<b>Complete 6 hours from the IT list</b>					ITC 563 - Introduction to Network Security	3			ITC 560 or concurrent enrollment <sup>1</sup> / demand
<b>Option 2: IT Infrastructure</b>					ITC 564 - Introduction to Ethical Hacking	3			ITC 560 or concurrent enrollment <sup>1</sup> / demand
Complete 12 hours from the following:					ITC 581- Foundations of Business Analysis	3			Undergraduate business majors must be admitted to degree program <sup>1</sup>
ITC 330 - Introduction to Networking	3			ITC 235 <sup>1</sup>	ITC 583 - Cloud Computing <sup>2</sup>	3			Spring <sup>1</sup>
ITC 430 - Advanced Networking	3			ITC 330 <sup>1</sup> / demand					
ITC 495 - Advanced Database Management Systems Concepts	3			ITC 295 <sup>1</sup> / demand					
ITC 528 - Database Application Development with Oracle	3			ITC 260 & ITC 295 <sup>1</sup>					
ITC 560 - Fundamentals of Cybersecurity	3			ITC 330 <sup>1</sup> / demand					
ITC 583 - Cloud Computing	3			Spring <sup>1</sup>					
<b>Complete 6 hours from the IT list</b>									

<sup>1</sup>Undergraduate business and undecided majors must be admitted to degree program.

<sup>2</sup>Cannot be used for both this list and the requirements on the left.

<sup>3</sup>If not used above from Option 1

Note: A minimum of 12 credit hours not counted as requirements on any other major or minor, and exclusive of problems or readings is required for any COB major.

Cr Rec - Credit hours received for courses completed. Cr Bal - Credit balance needed to fulfill requirements.

Electives, as needed to bring total credit hours to a minimum of 120 and upper division hours (300+) to 40.

**For advisement only. Consult appropriate catalog for degree requirements.**