



# Fall 2025 Catalog Year

SMITH COLLEGE OF ENGINEERING & TECHNOLOGY  
INFORMATION SYSTEMS AND TECHNOLOGY DEPARTMENT  
**BACHELOR OF SCIENCE DEGREE**  
INFORMATION TECHNOLOGY

Course No.	Course Title	Prerequisites	Cred	Sem
<b>General Education Requirements</b>				
ENGL 1010 or ENGH 1005	Introduction to Academic Writing Literacies and Composition	Appropriate placement score ENGL 0890 or appropriate placement score	3 5	Fa/ Sp/ Su Fa/ Sp/ Su
ENGL 2010	Intermediate Academic Writing	ENGL 1010 or ENGL 101H w/ grade of C- or better in the last 3 years	3	Fa/ Sp/ Su
MATH 1050 or MATH 1055	College Algebra or College Algebra with Preliminaries	MAT 1000 or MAT 1010 w/ grade of C or better w/in the past 2 years; or Appropriate placement by the ALEKS placement test: 38-45	4 5	Fa/ Sp/ Su
<b>American Institutions: Complete one of the following:</b>			3	
HIST 2700 & HIST 2710	US History to 1877 US History since 1877			Fa/ Sp/ Su
HIST 1700	American History			Fa/ Sp/ Su
HIST 1740	US Economic History			
POLS 1000	American Heritage			Fa/ Sp/ Su
POLS 1100	American National Government			Fa/ Sp/ Su
<b>Complete the following:</b>				
ENGL 2100	Technical Communication (fulfills Humanities Distrib)	ENGL 1010 or ENGH 1005	3	Fa/ Sp/ Su
<b>Distribution Courses: (see catalog for list of approved courses)</b>				
Fine Arts Distribution			3	Fa/ Sp/ Su
Social/Behavioral Science Distribution			3	Fa/ Sp/ Su
Biology Distribution (BIOL 1011 Intro to Bioinformatics recommended)			3	Fa/ Sp/ Su
Physical Science Distribution			3	Fa/ Sp/ Su
Personal, Professional, and Civic Growth			3	Fa/ Sp/ Su
<b>General Education Requirements Total Credits</b>			<b>31</b>	
<b>Information Technology Core Requirements</b>				
CS 2300	Discrete Math Structures I	(CS 1410 or INFO 2200), MATH 1050 or higher	3	Fa/ Sp/ Su
MGMT 2340	Business Statistics I	MATH 1050, MATH 1055, or MATH 1090 or higher, or appropriate test scores	3	Fa/ Sp/ Su
INFO 1120	Information Systems and Technology Fundamentals	IM 1010 recommended	3	Fa/ Sp/ Su
INFO 1200	Computer Programming I for IS/IT	MAT 1010 or MAT 1015 recommended; INFO 1120 recommended	3	Fa/ Sp/ Su
IT 1510	Introduction to System Administration--Linux/UNIX	INFO 1120 recommended	3	Fa/ Sp/ Su
IT 1600	Computer Architecture & Systems Software	INFO 1120 recommended	3	Fa/ Sp/ Su
INFO 2200	Computer Programming II for IS/IT	(INFO 1200 or CS 1400 w/ C- or better) & pre- or co- MATH 1050 or higher	3	Fa/ Sp/ Su
INFO 2410	Database Fundamentals	INFO 1120 or IM 2010 recommended	3	Fa/ Sp/ Su
IT 2530	Introduction to System Administration--Windows	IT 1600	3	Fa/ Sp
IT 2600 or CS 2600	Data Communication Fundamentals or Computer Networks I	INFO 1120 or IT 1600 or CS 1400 recommended 2810 or (INFO 1200 and IT 1600)	3 3	Fa/ Sp/ Su Fa/ Sp/ Su
CYBR 2700	Information Security Fundamentals	IT 2600 or CS 2600; IT 1600 recommended	3	Fa/ Sp/ Su
INFO 3300	Web Systems Development	(INFO 1200 or IT 1200 or CS 1400) & (INFO 2410 or CS 3520) both w/ a C- or better in last 7 years, UAS, INFO 2420 recommended	3	Fa/ Sp/ Su
INFO 3430	Systems Analysis and Design	[(INFO 2410 and (INFO 2420 or IT 2700)) or (IM 2600 and IM 2800) each w/ grade C- or higher in last 7 years, and (MKTG 220G or ENGL 2100), UAS	3	Fa/ Sp/ Su
IT 3200	Cloud Foundations	(INFO 1120 or CS 1400), IT 1600 and (IT 2600 or CS 2600) w/C- or higher in last 5 years, UAS	3	Fa/ Sp
IT 3510	Advanced System Admin--Linux/UNIX	INFO 1200 or CS 1400, IT 1510 and (IT 2600 or CS 2600) w/C- or higher in last 5 years, UAS	3	Fa/ Sp/ Su
IT 3530	Advanced System Administration--Windows Server	INFO 1200 , IT 2530 and (IT 2600 or CS 2600) w/C- or higher in last 5 years, UAS	3	Fa/ Sp/ Su
IT 3600	Internetworking and Router Management	(INFO 1200 or CS 1400)and (IT 2600 or CS 2600) w/C- or higher in last 5 years, UAS	3	Fa/ Sp/ Su
INFO 4050G	Global Ethical & Professional Perspectives in IS/IT	INFO 3430, UAS	3	Fa/ Sp/ Su
IT 4300	IoT - Internet of Things	(IT 3510 and IT 3530 and IT 3600) w/C- or higher in last 5 years, UAS	3	Fa/ Sp
IT 4600	Enterprise Network Architectures and Administration	IT 3600, UAS	3	Fa/ Sp/ Su
CYBR 4700	Enterprise Cybersecurity Management	CYBR/IT 2700, UAS, Pre or Corequisite: INFO 3430	3	Fa/ Sp
IT 4750	Information Technology Operations Capstone	IT 4600, CYBR/IT 4700, UAS	3	Fa/ Sp
<b>IT Core Total Credits</b>			<b>66</b>	
<b>Lower Division Electives</b>				
Any lower-division courses				
<b>Lower Division Electives</b>			<b>5</b>	

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IT Application Domain Requirement			
Two specified courses to provide students with knowledge of an application domain of their choice and interest. (See department advisor for list of approved courses.)			6
BS IT Elective Domain Requirements			
Select ONE of the following domains			12
Enterprise IT Domain - 12 credits			
Select 12 credits from the following:			Cr Sem
IT 3540	Supporting Apple Technologies	[INFO 1200 and IT 1510 and (IT 2600 or CS 2600)]all w/ C- or higher in past 5 years], UAS	3 On sufficient demand
IT 4590R	Current Topics in Information Technology	Junior Standing or Department Approval, UAS	3 On sufficient demand
IT 4810R	Internship	(IT 3510 or IT 3530 or IT 3540 or IT 3600 or IT 3700), Dept. Approval, UAS	1 to 3 Fa/ Sp/ Su
INFO 3410	Database Systems and Warehousing	INFO 2410 or CS 3520 w/ grade C- or higher in last 7 years, UAS	3 Fa/ Sp/ Su
INFO 4440	Enterprise Computing Environments	ACC 2110 or INFO 3120 or TECH 4420, UAS	3 On sufficient demand
CS 3140	Network and Cloud Security	CS 2690, CS 3100, UAS	3 Fall
Database Domain - 12 credits			
Complete the following 9 credit hours:			Cr Sem
INFO 3410	Database Systems and Warehousing	INFO 2410 or CS 3520 w/ grade C- or higher in last 7 years, UAS	3 Fa/ Sp/ Su
INFO 4410	Database Administration	INFO 2410 or CS 3520 in last 5 years, UAS	3 Fa/ Sp
INFO 4440	Enterprise Computing Environments	ACC 2110 or INFO 3120 or TECH 4420, UAS	3 On sufficient demand
Select one course from the following:			
IT 4810R	Internship	(IT 3510 or IT 3530 or IT 3540 or IT 3600 or IT 3700), Dept. Approval, UAS	1 to 3 Fa/ Sp/ Su
CYBR 4250	Database Security and Auditing	INFO 3410 or CYBR 3700, UAS	3 On sufficient demand
Web/Mobile Development Domain - 12 credits			
Complete the following 9 credit hours:			Cr Sem
INFO 2420	Web Application Design	INFO 1120 or IM 1010 recommended	3 Fa/ Sp/ Su
INFO 3330	Client-Side Web Development	(INFO 1200 or IT 1200 or CS 1400) & (INFO 2410 or CS 3520) both w/ a C- or better, UAS, INFO 2420 recommended	3 Fall
INFO 3360	Server-Side Web Frameworks	(INFO 1200 or IT 1200 or CS 1400) & (INFO 2410 or CS 3520) both w/ a C- or better, Pre or Corequisite INFO 3300, UAS, INFO 2200 recommended	3 Fa/ Sp/ Su
Select one course from the following:			
INFO 4300	Enterprise Web Development	INFO 3300, UAS	3 Spring
INFO 4420	Mobile Application Development	(INFO 1200 or CS 1400) & (INFO 2410 or CS 3520), UAS, INFO 2200 or CS 1410 recommended	3 Fall
CS 3270	Python Software Development	CS 2420 or INFO 2200, UAS	3 Spring
Cybersecurity Domain - 12 credits			
Complete the following 9 credit hours:			Cr Sem
CYBR 2800	Computer Forensic Fundamentals	INFO 1120 or IT 1600 or CS 1400 or CJ 1010	3 Fa/ Sp/ Su
CYBR 3350	Intellectual Property and Cyber Law	ENGL 2010 and (INFO 1120 or CS 1030 or LEGL 3000), UAS	3 Fa/ Su
CYBR 3700	Ethical Hacking and Countermeasures	IT 1510, CYBR/IT 2700, UAS	3 Fa/ Sp/ Su
Select one course from the following:			
CYBR 4450	Internet of Things Security	IT 1510, CYBR/IT 2700, UAS	3 On sufficient demand
CS 3140	Network and Cloud Security	CS 2690, CS 3100, UAS	3 Fall
Business Intelligence and Big Data Domain - 12 credits			
Complete the following 9 credit hours:			Cr Sem
INFO 3130	Introduction to Applied Data Analytics	(MGMT 2340 or STAT 1040 or STAT 1045 or STAT 2040 or STAT 2050 or PSY 3110), basic knowledge of Microsoft Excel, or Dept. Approval, UAS	3 Fa/ Sp/ Su
INFO 4120	Data Visualization	INFO 2410, UAS, INFO 3130 recommended	3 Fa/ Sp
INFO 4130	Data Science and Big Data Analytics	INFO 3130, UAS	3 Fa/ Sp
Select one course from the following:			
INFO 3410	Database Systems and Warehousing	INFO 2410 or CS 3520 w/ grade C- or better, UAS	3 Fa/ Sp/ Su
IT 4810R	Internship	One 3000+ course in INFO, IT, MKTG, or MGMT, Dept. Approval, UAS	1 to 3 Fa/ Sp/ Su
IT Domain Credits			12
TOTAL DEGREE CREDITS			120
Graduation Requirements			
1.	Completion of at least 122 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.		
2.	Overall grade point average 2.0 or above with minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."		
3.	Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.		
4.	Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.		
5.	Completion of GE global intercultural requirement: INFO 405G satisfies this requirement.		
6.	Successful completion of at least two Writing enriched (WE) courses.		