Computer Information Systems

Composite Major

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Major

The Computer Information Systems major prepares students with a foundation in problem solving skills required to design and implement technology solutions to support business needs. The courses use project-based curricula that first teach the concepts of the subject matter and then require the students to apply the concepts. Students often work in teams to encourage the learning of group dynamics and soft-skills. The CSSE Department has joined in Academic Alliances with technology companies such as SAP, Microsoft, and Oracle, using these technologies to complete hands-on projects.

Students graduating with a Computer Information Systems Degree have a 100 percent in-field job placement rate for the last five years. Career opportunities are Business Analyst, Systems Analyst, Database Administrator, MIS Technician, MIS Manager, Network Administrator, Computer Security Specialist, Computer Programmer, Software Engineer, Software Implementation Consultant, IT Team Leader and IT Project Manager. Visit our page at csse.vcsu.edu or watch the video at www.code.org (http://www.code.org). You don't have to be a genius, you just have to be determined. You could be the next Mark Zuckerberg (creator of Facebook) or Jack Dorsey (creator of Twitter). Let your dream become a reality at Valley City State University!

Practical Experience

Students are encouraged to work for internship credits while completing their degree in Computer Information Systems. Companies such as Doosan, Blue Cross Blue Shield of North Dakota, Bobcat, Eide Bailly, Thomson Reuters, Cavendish, John Deere, Microsoft, Appareo Systems, NBC Universal, and Best Buy have welcomed VCSU students in their internship programs.

VCSU students develop excellent technology and soft skills and many are hired into full-time positions with these companies after graduation. In addition to internships, cooperative research projects with faculty give students first-hand experience with advanced research techniques. The undergraduate research ranges from Virtual Reality to the Internet of Things. Students also have the opportunity to participate in activities such as company tours, workshops, fairs, and technology conferences.

> *"I am very excited to be a professional web developer. With it comes the responsibility to constantly learn and improve my skills, and I strive to write better code every day." —Cy Kirsch '12, New Leipzig, N.D.; web developer, Provident Precious Metals, Carrollton, Texas*

General Education Requirements

Code	Title	Credits
English Composition		
Select one of the following:		6
ENGL 110	College Composition I [1]	
ENGL 120	College Composition II [2]	
or ENGL 125	Introduction to Professional Writing	
or		
ENGL 120	College Composition II	
or ENGL 125	Introduction to Professional Writing	
ENGL 210	College Composition III	
Speech Communication		
Select one of the following:		3
COMM 110	Fundamentals of Public Speaking	
COMM 212	Interpersonal Communication	
COMM 216	Intercultural Communication	
Mathematics		
Select one of the following:		3
MATH 103	College Algebra	
MATH 104	Finite Mathematics	
MATH 107	Precalculus	
MATH 165	Calculus I	
MATH 210	Elementary Statistics	
Lab Science		
Select two of the following:		8
BIOL 111	Concepts of Biology	
BIOL 150	General Biology I	
BIOL 151	General Biology II	
BIOL 170	General Zoology	
CHEM 115	Introductory Chemistry	
CHEM 116	Introduction to Organic and Biochemistry	
CHEM 121	General Chemistry I	
CHEM 122	General Chemistry II	
GEOL 100	Introduction to Earth Science	
GEOL 106	The Earth Through Time	
PHYS 100	Concepts of Physics	
PHYS 110	Introductory Astronomy	
PHYS 161	Introductory College Physics I	
PHYS 162	Introductory College Physics II	
PHYS 251	University Physics I	
PHYS 252	University Physics II	
TECH 161	Technology, Engineering, and Design	
Wellness		
HPER 100	Concepts of Fitness and Wellness	2
Technology		
Select one of the following:		3
CIS 170	Introduction to Computer Information Systems [2]	
CSCI 127	Introduction to Programming in Java	
CSCI 160	Introduction to Structured Programming I	
SE 110	Discovering Computing	
Humanities		
Literacies		
Select one of the following:		3
ENGL 220	Introduction to Literature	
ENGL 225	Introduction to Film	
ENGL 241	World Literature I	
ENGL 242	World Literature II	
ENGL 261	American Literature I	
ENGL 262	American Literature II	
HUM 201	Civilization, Thought, and Literary Heritage	
SPAN 101	1st Year Spanish I	
SPAN 102	1st Year Spanish II	
SPAN 201	2nd Year Spanish I	

SPAN 202	2nd Year Spanish II	
THEA 110	Introduction to Theatre Arts	
THEA 161	Acting One	
Art and Music		
Select one of the following:		3
ART 110	Introduction to the Visual Arts	
HUM 202	Fine Arts and Aesthetics	
MUS 100	Music Appreciation	
MUS 101	Music Fundamentals	
MUS 207	History of Rock and Roll	
Social Science		
Select two of the following:		6
COMM 112	Understanding Media and Social Change	
COMM 114	Human Communication	
ECON 201	Principles of Microeconomics [1]	
ECON 202	Principles of Macroeconomics [2]	
GEOG 151	Human Geography	
HIST 103	United States to 1877	
HIST 104	United States to Present	
HIST 211	World Civilizations to 1500	
HIST 212	World Civilizations since 1500	
HIST 260	Women in America	
HIST 267	Environmental History	
HIST 270	Native American Studies	
POLS 115	American National Government	
POLS 116	State and Local Government	
PSYC 111	Introduction to Psychology	
SOC 110	Introduction to Sociology	
SOC 111	Introduction to Anthropology	
Additional Humanities or Social Science		
Select one additional course from Humanities or Social Science or select from the following:		2
ART 112	Design	
ART 130	Drawing I	
ART 150	Ceramics I	
GEOG 111	Survey of Geography	
MUS 104	Group Piano for Non-Majors	
MUS 105	Group Piano for Non-Majors	
MUS 130	Valkyries	
MUS 131	Concert Choir	
MUS 140	Athletic Band	
MUS 141	Concert Band	
PHYS 275	Planetarium Science	
THEA 201	Theatre Practicum	
Total Credits		39

1 Required

2 Required ENGL 125

Major Requirement

Code	Title	Credits
Required Courses		
ACCT 200	Elements of Accounting I	3
ACCT 201	Elements of Accounting II	3
CIS 104	Microcomputer Database	2
CIS 105	Microcomputer Spreadsheets	2
CIS 147	Principles of Information Security	3
CIS 329	Information Systems Management	3
CIS 369	Enterprise Systems	3
CIS 380	Systems Analysis and Design	3
CIS 381	Project Management	3
CIS 385	Database Theory/Design	3
CIS 460	Enterprise Architecture	3
CIS 465	IS Strategy Management and Acquisition	3
CIS 470	Customer Relationship Management (CRM) and Business Intlligence (BI)	4
CIS 480	Capstone Project	3
CSCI 127	Introduction to Programming in Java	3
ECON 261	Business Statistics	3
Select one of the following:		3
ENGL 310	Writing in the Major	
ENGL 410	Technical and Scientific Writing	
ENGL 420	Online Communication and Documentation	
SE 110	Discovering Computing	3
MGMT 430	Organizational Behavior	3
Directed Electives		
Select eighteen hours from the following:		18
CIS 128	Microcomputer Hardware I	
CIS 162	Operating Systems	
CIS 164	Networking Fundamentals I	
CIS 180	Creating Web Pages I	
CIS 276	Business Language	
CIS 371	Enterprise Systems II	
CIS 410	Advanced Business Languages	
CIS 420	Internet Languages	
CIS 440	Advanced Digital Web Design	
CIS 475	Integration of Business Processes in SAP ERP	
Total Credits		74

Total General Education 39 Hrs
Total Major Requirement 74 Hrs
Total Credits Needed to Graduate 120 Hrs

For degree and graduation requirements, visit degree requirements and graduation requirements (http://catalog.vcsu.edu/undergraduate-catalog/academic-affairs/degree-requirements).