

# Academic Fact Sheet



## COMPUTER INFORMATION SYSTEMS MAJOR (57 Hours) NETWORKING CONCENTRATION

The Computer Information Systems major is administered by the Computer Technology and Information Systems Department.

### Facts about the Program

#### Degrees Offered:

B.S., B.A.

#### Faculty:

Molly Curnyn, M.S.  
Timothy P. Garvin, Ph.D.  
Lourdes Herling, M.S.  
Jack Imdieke, Ph.D.  
Lori Nicholson, M.S.

### Program Description

**Objectives:** The Computer Information Systems (CIS) program provides its students and graduates with: (1) a knowledge of foundational principles and concepts of computing; (2) and understanding of fundamental organizational and business concepts, (3) familiarity with essential theory and practical skills in the areas of computer programming, introductory networking, systems development, computer hardware, operating systems, and databases; (4) instruction in advanced undergraduate topics, theory, and skills in a focused concentration area; (5) the ability to work independently, as well as in groups across a range of diverse situations; (6) a working familiarity with sources of information and assistance in this field and related fields, as well as a knowledge of the systems for accessing such resources; (7) the ability to communicate effectively in a variety of forms for a variety of purposes; (8) an awareness of the types and range of career opportunities in the field, coupled with the ability to manage one's own career; and (9) an understanding of the contexts and environments surrounding the development and uses of information systems.

### Program Content

#### Major in Computer Information Systems (BA or BS) 57 hours

Computer Information Systems major should meet with their advisors to determine the appropriate mathematics courses and science courses to satisfy their General Education Mathematics and Science requirements.

#### Core: (24 hours)

CIS 132	Principles of Computer and Information Systems .....	3
140	Introduction to Microcomputer Operating Systems .....	3
171	Networking I .....	3
360	Computer Informations Systems: Analysis and Design.....	3
366	Introduction to Data Base .....	3
372	Computer Hardware .....	3
480	Seminar in Computer Information Systems.....	3
CSC 150	Programming Fundamentals I.....	3
		<u>24</u>

#### CIS Networking Concentration: (21 hours)

CIS 271	Networking II.....	3
361	Computer Information Systems: Design, Implementation & Evaluation.....	3
371	Networking III .....	3
390	Computer Information Systems Practicum.....	3
471	Networking IV .....	3
CSC 160	Programming Fundamentals II .....	3
Plus 3 hours	of committee approved upper-division elective course work .....	<u>3</u>
		21

#### Business Support Course: (12 hours)

BUS 142	Survey of Accounting .....	3
308	Strategic Communications .....	3
360	Management Theory and Practice.....	3
CIS 352	Structured Business Programming.....	<u>3</u>
		12

### Career Opportunities

Network Specialist/Technician  
Systems Analyst  
Management Information Systems Director  
Telecommunications Manager  
Data Security Specialist  
Network Administrator

### Scholarships and Financial Aid

Wayne State College is committed to providing a quality, affordable education for its students. There are several types of financial assistance available for Wayne State students, including grants, loans, work-study and scholarships. The aid packages are composed of money from Pell grants, SEOG grants, SSIG grants, Perkins loans, Stafford student loans, PLUS loans and a variety of scholarships. Contact the Financial Aid Office at (402) 375-7230 for further information.

Students are encouraged to contact the Financial Aid Office for state-assisted and/or annual and endowed scholarship information. Scholarships are highly competitive and awarded through an application process.

### For more information contact:

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Wayne State College  
Wayne, NE 68787  
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www.wsc.edu

**COMPUTER INFORMATION SYSTEMS MAJOR (57 Hours)  
NETWORKING CONCENTRATION**

**FRESHMAN**

**1st Semester**

CIS 132	Prin. of Computing & IS	3
CSC 150	Programming Fund. I	3
CSC 165	Intro to Web Design	
	General Education	

**2nd Semester**

BUS 142	Survey of Accounting	3
CIS 140	Intro to Micro Operating Systems	3
CSC 160	Programming Fund. II	3
	General Education	

**SOPHOMORE**

**3rd Semester**

CIS 171	Networking I	3
	General Education	3

**4th Semester**

BUS 308	Strategic Communications	3
CIS 271	Networking II	3
CIS 366	Intro to Data Base Management	3
	General Education	

**JUNIOR**

**5th Semester**

* BUS 360	Management Theory and Practice	3
CIS 352	Structured Business Programming	3
CIS 360	Comp. Info. Systems: Analysis & Design	3
CIS 371	Networking III	3
CIS 372	Computer Hardware	3
	General Education	

**6th Semester**

CIS 361	Comp. Info. Systems: Design, Implement & Eval.	3
CIS 471	Networking IV	3
	Committee Approved Electives	6
	General Education	
	General Electives	

**SENIOR**

**7th Semester**

CIS 390	CIS Practicum	
	General Education	
	General Electives	

**8th Semester**

CIS 480	Seminar in Computer Information Systems	3
CSC 450	Server Security and Management	3
	General Electives	

\*Courses may be taken either semester during the year indicated.

The CIS/CSC elective courses approved by the Computer Technology & Information Systems Department are:

CIS 350	CICS Application Programming (3)	BUS 408	Business Ethics (3)
CIS 356	Visual Basic (3)	BUS 435	Student-to-Business Consulting (if computer-related) (3)
CIS 371	Networking III (strongly recommended) (3)	BUS 460	Human Behavior in Organizations (3)
CIS 375	Intro to E-Commerce 3	BUS 496	Seminar in Project Management (3)
CIS 430	Management Information Systems (3)	CSC 340	Modern Programming Methods (3)
CIS 466	Advanced Data Base (3)	CSC 365	Scripting Language (3)
CIS 471	Networking IV (strongly recommended) (3)	CSC 380	Advanced Operating Systems (3)
CIS 475	Topics in Computer Information Systems (3)	CSC 450	Server Security and Management (3)