

Academic Fact Sheet



COMPUTER INFORMATION SYSTEMS MAJOR (57 Hours) PROGRAMMER/ANALYST 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.
Lori Nicholson, Ph.D.

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
		24

CIS Programmer/Analyst Concentration: (21 hours)

CIS 346	Introduction to MVS/JCL	3
353	Advanced Structural Business Programming	3
361	Computer Information Systems: Design, Implementation & Evaluation.....	3
466	Advanced Database.....	3
	Committee Approved Electives (300 or above).....	6
CSC 160	Programing Fundamentals II.....	3
		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.....	3
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Career Opportunities

Programmer
Systems Analyst
Management Information Systems Director
Database Administrator
Data Security Specialist

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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**COMPUTER INFORMATION SYSTEMS MAJOR (57 Hours)
PROGRAMMER/ANALYST CONCENTRATION**

FRESHMAN

1st Semester

CIS 132	Prin. of Computing & IS	3
CSC 150	Programming Fund. I	3
	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 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 372	Computer Hardware	3
	General Education	

6th Semester

CIS 346	Introduction to MVS/JCL	3
CIS 353	Advanced Structured Business Programming	3
CIS 361	Comp. Info. Systems: Design, Implement & Eval.	3
	Committee Approved Elective	3
	General Education	

SENIOR

7th Semester

CIS 466	Advanced Database	3
	Committee Approved Elective	3
	General Education	
	General Electives	

8th Semester

CIS 480	Seminar in Computer Information Systems	3
	General Electives	
	General Education	

*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 271	Networking II (3) (approved elective, but NOT 300 level)	BUS 408	Business Ethics (3)
CIS 350	CICS Application Programming (3)	BUS 435	Student-to-Business Consulting (if computer-related) (3)
CIS 356	Visual Basic (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	Objected Oriented Programming Methods (3)
CIS 466	Advanced Data Base (3)	CSC 365	Scripting Language (3)
CIS 471	Networking IV (3)	CSC 380	Advanced Operating Systems (3)
CIS 475	Topics in Computer Information Systems (3)		