

Computer Science

The following matrix indicates those courses deemed transferable among institutions listed across the top of the matrix. The numbers on the matrix represent the number of semester hours associated with the course at each institution and which institutions have agreed to transfer the commonly numbered course in each row.

You can view the group leaders at the bottom of the page. If you are interested in printing this page, please note that it is best to print in landscape mode.

Prefix	Number	Gerta	Course Title	BSC	LRSC	NDSCS	WSC	DCB	DSU	MISU	NDSU	UND	VCSU	SBC	UTTC
CSCI	101	ND:COMPSC	Introduction to Computers	3	3	3	3	3	3	3		3/1		3	
CSCI	114	ND:COMPSC	Microcomputer Packages								3				
CSCI	116		Business Use of Computers			4					4				
CSCI	120	ND:COMPSC	Computer Programming I				3			3		3			
CSCI	121		Beginning Ada												
CSCI	122	ND:COMPSC	Visual Basic	3	3	3	3	3		3	3				
CSCI	124		Beginning C++/Visual C++	3	3		3	3		4			4		
CSCI	125	ND:COMPSC	Beginning COBOL	3		3	3				3				
CSCI	126	ND:COMPSC	Beginning FORTRAN				3			2	3				
CSCI	127		Beginning Java/J++	3				3					3		
CSCI	128	ND:COMPSC	Beginning PASCAL							3					

Prefix	Number	Gerta	Course Title	BSC	LRSC	NDSCS	WSC	DCB	DSU	MISU	NDSU	UND	VCSU	SBC	UTTC
CSCI	129		Beginning RPG												
CSCI	155		Immigration								2				
CSCI	160	ND:COMPSC	Computer Science I	4	3	4	4	3		3	4	4	3	4	
CSCI	161	ND:COMPSC	Computer Science II	4	3	4	4	3	4	3	4	4	3		
CSCI	162	ND:COMPSC	Intense FORTRAN								2				
CSCI	170	ND:COMPSC	Computer Programming II						4			3			
CSCI	172		Intermediate Visual Basic	3	3	3	3	3							
CSCI	174		Intermediate C++/Visual C++				3						4		
CSCI	175		Intermediate COBOL			4	3								
CSCI	240		Advanced COBOL Programming				3								
CSCI	242		Data Structures				3					3	3		
CSCI	250/350		Assembly Language	3		3	4		4	3		3	3		
CSCI	270/370		Computer Organization	3					3			3	3		
CSCI	271		4th GL PowerBuilder			3									
CSCI	289	ND:COMPSC	Social Implications of Computer Technology				2	2				3			

CSCI 101 Introduction to Computers

General hardware and software issues such as: terminology, environments. Applications such as: word processing, spreadsheets, databases, Internet usage.

CSCI 114 Microcomputer Packages

Experience in using word processing, spreadsheet, database, graphics, and telecommunications applications on personal computers.

CSCI 116 Business Use of Computers**CSCI 120 Computer Programming I**

Introduction to programming in a high-level language. Emphasis on problem solving and logical thinking. Design, implementation and testing of programs for small-scale problems using elementary data types and control structures.

CSCI 121 Beginning Ada

Introduction to programming in the Ada language.

CSCI 122 Visual Basic

Introduction to programming in the BASIC/Visual BASIC language.

CSCI 124 Beginning C++/Visual C++

Introduction to programming in the C++/Visual C++ language.

CSCI 125 Beginning COBOL

Introduction to programming in the COBOL language.

CSCI 126 Beginning FORTRAN

Introduction to programming in the FORTRAN language.

CSCI 127 Beginning Java/J++

Introduction to programming in the Java/J++ language.

CSCI 128 Beginning PASCAL

Introduction to programming in the Pascal language.

CSCI 129 Beginning RPG

Introduction to programming in the RPG language.

CSCI 155 Immigration

Introduction to programming in the current language of CSCI 160. For transfer students with CSCI 160 or equivalent in a language different from that used here. Prerequisite: CSCI 160 or equivalent.

CSCI 160 Computer Science I

An introduction to computer science including problem solving, algorithm development and structured programming in a high-level language. Emphasis on design, coding, testing and documentation of programs using accepted standards of style.

CSCI 161 Computer Science II

Advanced concepts in computer science including data structures, algorithm analysis, standard problems such as searching and sorting and memory management issues. Prerequisite: CSCI 160.

CSCI 162 Intense FORTRAN

Intensive introduction to FORTRAN and its use in engineering applications. Students receive an introduction to numerical analysis, particularly error analysis.

CSCI 170 Computer Programming II

Advanced techniques in programming in a high-level language. Topics include recursion, pointers and fundamental data structures and their use in developing small to medium-scale programs. Prerequisite: CSCI 110.

CSCI 172 Intermediate Visual Basic

Intermediate-level programming in the BASIC/Visual BASIC language.

CSCI 174 Intermediate C++/Visual C++

Intermediate-level programming in the C++/Visual C++ language.

CSCI 175 Intermediate COBOL

Intermediate-level programming in the COBOL language.

CSCI 240 Advanced COBOL Programming

Advanced-level programming in the COBOL language.

CSCI 242 Data Structures

Manipulation of graphs and trees. Internal and external sort/merge/search techniques. Dynamic memory allocation. Time/space analysis of algorithms. Prerequisites: CSCI 161 and 223, MATH 208.

CSCI 250/350 Assembly Language

Programming in assembly language.

CSCI 270/370 Computer Organization

The structure and organization of computer hardware.

CSCI 271 4th GL PowerBuilder

An introduction to PowerBuilder objects, events, scripting, data windows, transaction objects, menus, and object-oriented programming. Prerequisites: CSCI 160 or permission from instructor.

CSCI 289 Social Implications of Computer Technology

An introduction to the effects of computer technology on society and individuals and to ethical problems faced by computer professionals. Topics covered include privacy, the nature of work, centralization versus decentralization and the need for human factors analysis in the development of a new computer system.

The following individuals are leaders for this discipline. Those marked with an asterisk (*) are chairs.

Name	Institution	Email Address	Phone Number
Karen Arlien	BSC	karen.m.arlien@bismarckstate.edu	701-224-5501
Nick See	BSC	nicklos.see@bismarckstate.edu	701-224-5528

DeShawn Lawrence	CCCC	deshawn.lawrence@littlehoop.edu	701-766-1342
Diane Keller	DCB	diane.keller@dackotacollege.edu	701-228-5453
Billy Harris	DSU	billy.harris@dickinsonstate.edu	701-483-2177
Heidi Schneider	LRSC	heidim.schneider@lrsc.edu	701-662-1524
Rhonda Nelson	MaSU	rhonda.nelson@mayvillestate.edu	701-788-5208
Scott Kast	MiSU	scott.kast@minotstateu.edu	701-858-3081
John Kroshus	NDSCS	john.kroshus@ndscs.edu	701-671-2115
Bonnie Schillinger	NDSCS	bonnie.schillinger@ndscs.edu	701-671-2496
Marie Gordon	NDSU	marie.gordon@ndsu.edu	701-231-6430
Joseph Latimer	NDSU	joseph.latimer@ndsu.edu	701-231-6509
Ken Magel	NDSU	kenneth.magel@ndsu.edu	701-231-8189
Brian Slator	NDSU	brian.slator@ndsu.edu	701-231-6124
Lisa Johnson	NDUS	lisa.a.johnson@ndus.edu	701-328-4143
Jen Janecek- Hartman	NHSC	jjanec@nhsc.edu	701-627-8049

Melody Azure	SBC	Melody.azure@sittingbull.edu	701-854-8020
Terri Martin-Parisien	TMCC	tmartinparisien@tm.edu	701-477-7862 ext. 2961
Ron Marsh	UND	rmarsh@cs.und.edu	701-777-4013
Charles Gitter	UTTC	cgitter@uttc.edu	701-255-3285 ext. 3101
Curtis Hill	VCSU	curt.hill@vcsu.edu	701-845-7103
Ken Quamme	WSC	ken.quamme@willistonstate.edu	701-774-4207

[Click here to email everyone](#) on the above list.

[Director of Academic Affairs](#)