Computer Science Emphasis

Associate of Science

This is a two-year transferable program leading to an associate of science with an emphasis in computer science. Computer science encompasses the methodology, tools, techniques, and theory of information derivation, storage, manipulation and communication. All courses recommended will partially satisfy the bachelor of science in computer science and engineering at the University of Nevada, Reno.

Emphasis Outcomes

Students completing the emphasis will:

- Have the ability to apply knowledge of computing and logical reasoning necessary to analyze a problem and identify, formulate and use the appropriate analytical skills to obtain a solution.
- Have the ability to design and implement a computer program to meet desired specifications for a problem.
- Have the ability to communicate and work effectively on a team to achieve a common goal.

General Education Requirements

Diversity (3 credits)

See list of courses under the Associate of Science degree requirements. Choosing from ANTH 201, ANTH 205, EDU 203, HIST 208, HIST 209, HIST 227, HIST 247, PSY 276, SOC 205, or SOC 276 will meet this requirement and also satisfy 3 credits in Social Science.

English 6 credits

Required: ENG 101 and 102 or ENG 113 and 114.

Fine Arts 3 credits

See list of courses under the Associate of Science degree requirements. The following courses are highly recommended for students wishing to major in Computer Science at UNR: ART 100, ART 160, ART 260, ART 261, HUM 101, HUM 102, HUM 106, MUS 121, MUS 123, MUS 124, THTR 100, THTR 105, THTR 180, THTR 210.

Humanities 3 credits

See list of courses under the Associate of Science degree requirements. CH 201 is highly recommended for students wishing to major in Computer Science at UNR.

Mathematics 6 credits

Required: MATH 181, MATH 182. Additional credits may be used to satisfy electives.

Science 12 credits

See list of courses under the Associate of Science degree requirements. Required: CS 282.

Recommended: The following courses are highly recommended for students wishing to major in Computer Science at UNR: PHYS 180/180L, PHYS 181/181L.

Social Science 6 credits

See list of courses under the Associate of Science degree requirements. CH 202 is highly recommended for students wishing to major in Computer Science at UNR. Choosing from one of the following courses will also meet the diversity requirement: ANTH 201, ANTH 205, EDU 203, HIST 208, HIST 209, HIST 227, HIST 247, PSY 276, SOC 205 or SOC 276.

U.S. and Nevada Constitutions 3 credits

See list of courses under the Associate of Science degree requirements. CH 203 or PSC 101 is required for students wishing to major in Computer Science and Engineering at UNR.

Total General Education Requirements 39 Credits

Emphasis Requirements

CIT 173	Introduction to Linux	3
CS 135	Computer Science I	3
CS 202	Computer Science II	3
CPE 201	Introduction to Computer Engineering	4
ENGR 100	Introduction to Engineering Design	3

Total Emphasis Requirements 16 Credits

Elective Requirements

	Extra credits from Math requirement	2
MATH 283	Calculus III	4

Total Elective Requirements 6 Credits

Total Degree Requirements 61 Credits

Suggested Course Sequence

First Year	Course #	Title	Credits
		1st Semester	
Emphasis	CIT 173	Introduction to Linux	3
Emphasis	CS 135	Computer Science I	3
Fine Arts	Elective	Choose from recommended list	3
English	ENG 101	Composition I	3
Emphasis	ENGR 100	Introduction to Engineering Design	3
		Total	**15**
		2nd Semester	
Emphasis	CS 202	Computer Science II	3
Social Science/ Diversity	Elective	Choose from recommended list	3
English	ENG 102	Composition II	3
Mathematics	MATH 181	Calculus I	4
		Total	**13**
Second Year	**Course #**	**Title**	**Credits**
		3rd Semester	
Humanities	CH 201	Ancient and Medieval Cultures	3
Emphasis	CPE 201	Introduction to Computer Engineering	4
Mathematics	MATH 182	Calculus II	4
Science	PHYS 180/180L	Physics for Scientists and Engineers I/Lab I	4
		Total	**15**
		4th Semester	
Social Science	CH 202	The Modern World	3
U.S. and Nevada Constitutions	CH 203	American Experiences and Constitutional Change	3
Science	CS 282	Simulation Physics	4
Elective	MATH 283	Calculus III	4
Science	PHYS 181/181L	Physics for Scientists and Engineers II/ Lab II	4
		Total	**18**
		Degree Total	**61**