METROPOLITAN COMMUNITY COLLEGE

Nebraska Lincoln **Nebraska Omaha**

College of Engineering

Bachelor of Science in Computer Engineering

Associate to Bachelor's (A→B) Articulation Agreement

For more information contact:

Office of Student Services
Metropolitan Community College
Elkhorn Valley Campus
(402) 289-1205
Fort Omaha Campus
(402) 457-2705
South Omaha Campus
(402) 738-4505
Sarpy Center
(402) 537-3800
Fremont Area Center
(402) 721-2507
Applied Technology Center
(402) 763-5800
Washington County
Technology Center
402-533-8400
www.mccneb.edu

University of Nebraska
(Omaha Campus)
College of Engineering
Computer and Electronics
Engineering Department
Bing Chen
(402) 554-2288
www.unomaha.edu

2013 - 2014

Computer Engineering is a program in the College of Engineering at the University of Nebraska – Lincoln (UNL). The program is offered at the University of Nebraska at Omaha (UNO) campus at the Peter Kiewit Institute. For more information, see the program website http://www.ceen.unomaha.edu/

Pre-Computer Engineering (PECPO)
Associate in Science

General Education Requirements...27

Communications				Quantitative / Numeracy Skills			
ENGL	1010	English Composition I ^ (ACE-1)	4.5	MATH	1310	Intermediate Algebra ^	4.5
ENGL	1020	English Composition II # (ACE-1)	4.5	**Other**			
SPCH	1110	Public Speaking # (ACE-2)	4.5	HMRL	1010	Human Relations Skills *	4.5
				INFO	1001	Information Systems & Literacy	4.5

Major Requirements for Pre-Computer Engineering 77

Quantitative / Numeracy Skills / Computer Science				Social Sciences *Select 2 courses*			
MATH	1420	College Algebra ^	5	ECON	1000	Macroeconomics # (ACE-6 or 8)	4.5
INFO	1521	Java Programming I # +	4.5	ECON	1100	Microeconomics # (ACE-6 or 8)	4.5
Humanities *Select 1 course*				GEOG	1010	Fundamentals of Geography	4.5
ENGL	2450	Introduction to Literature # (ACE-5)	4.5	GEOG	1050	Intro to Human Geography # (ACE-9)	4.5
HIST	1010	U. S. History to 1877 # (ACE-5)	4.5	GEOG	2150	World Regional Geography # (ACE-9)	4.5
HIST	1020	U.S. History 1877 to Present # (ACE-5)	4.5	HIST	1110	World Civilization I # (ACE-9)	4.5
PHIL	1010	Intro. to Philosophy # (ACE-5 or 8)	4.5	HIST	1120	World Civilization II # (ACE-9)	4.5
PHIL	1030	Professional Ethics # (ACE 8)	4.5	PSYC	1010	Introduction to Psychology # (ACE-6 or 8)	4.5
PHIL	1100	Critical Reasoning	4.5	SOCI	1010	Introduction to Sociology # (ACE-6 or 8)	4.5
PHIL	2200	Intro. to Comparative Religion # (ACE-9)	4.5	SOCI	2050	Current Social Problems # (ACE-6 or 9)	4.5
THEA	1000	Introduction to the Theatre # (ACE-7)	4.5	SOCI	2160	Marriage and the Family # (ACE-6 or 9)	4.5
Cultural Studies *Select 1 course*							
ENGL	2530	Ethnic Literature # (ACE-5 or 9)	4.5				
HIST	1110	World Civilization I # (ACE-9)	4.5				
HIST	1120	World Civilization II # (ACE-9)	4.5				
Natural Sciences/Quantitative/Numeracy Skills *40.5 credit hours*				**Electives** *Choose a minimum of 9 credit hours*			
MATH	2410	Calculus I # + (ACE-3)	7.5	INFO	1003	Intro to Computer Programming ^	5
MATH	2411	Calculus II # (ACE-3)	7.5	INFO	1522	C++ Programming I ^~	4.5
MATH	2412	Calculus III # (ACE-3)	6	INFO	1532	C++ Programming II ^~	4.5
MATH	2510	Differential Equations #	4.5	INFO	2537	Data Structures C/C++ #~	4.5
PHYS	210ABC	General Physics IA, IB, IC # (ACE-4)	7.5	ENGR	1050	Introduction to Engineering *	3
PHYS	211ABC	General Physics IIA, IIB, IIC # (ACE-4)	7.5	MATH	1430	Trigonometry ^	4.5

Total Required Quarter Hours 104
Maximum Transferable Semester Credit Hours to UNO... 64 (96 QH)
Credits are listed in Quarter Hours. 4.5 Quarter Hours = 3 Semester Hours

NOTES
(ACE-X) Course meets UNL ACE requirement. (ACE-X or Y) Course can meet either UNL ACE requirement. Only 1 ACE course in areas 5 through 9 can be applied to UNL's Computer Engineering program.

* Course is required for MCC's Associate in Science Degree but does not transfer to the College of Engineering.

** Course is required for MCC's Associate in Science Degree and is transferable to UNO, but is not required for the College of Engineering.

^ Course is not required for the College of Engineering, but is a prerequisite to another course. For example, MATH 1310 is not required but is needed to prepare for MATH 1420 and MATH 2410.

~ INFO 2537 transfers as UNO's CSCI 1620. The courses INFO 1522 & 1532 are prerequisites. Students may also choose to take CSCI 1620 after transfer.

Courses transfer to the UNL Computer Engineering program offered on the Omaha Campus.

This guide is based on the MCC catalog requirements. For a guide based on the UNL ACE requirements see page 2.

+ Students are encouraged to co-enroll in UNO's CEEN 1030 (Fall & Spring) and CEEN 1060 (Spring only) while completing the transferable courses listed above. Upon transferring to UNO, students will still have three years left to complete the Computer Engineering program. Contact an advisor at UNO for more details.

Students planning to enroll in Computer Engineering should discuss their overall program of study with an Computer Engineering advisor. Please call 554-2288 for an appointment.

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This guide to the Pre-Computer Engineering (PECPO) transfer degree breaks the degree down by UNL ACE general education requirements.

Pre-Computer Engineering (PECPO)
Associate in Science

General Education Requirements..27

Communications				Quantitative / Numeracy Skills			
ENGL	1010	English Composition I ^	4.5	MATH	1310	Intermediate Algebra ^	4.5
ENGL	1020	English Composition II #	4.5	**Other**			
SPCH	1110	Public Speaking #	4.5	HMRL	1010	Human Relations Skills *	4.5
				INFO	1001	Information Systems & Literacy	4.5

Major Requirements for Pre-Computer Engineering 77

Quantitative / Numeracy Skills / Computer Science				ACE SLO 7 Elective *Select 1 course*			
MATH	1420	College Algebra ^	5	ARTS	1110	Art History-Ancient/Gothic #	4.5
INFO	1521	Java Programming I # +	4.5	ARTS	1120	Art History-Renaissance/Mod #	4.5
ACE SLO 5 Elective *Select 1 course*				MUSC	1010	Introduction to Music #	4.5
ENGL	2450	Intro. To Literature #	4.5	MUSC	1050	Music Appreciation #	4.5
HIST	1010	US History to 1877 #	4.5	THEA	1000	Introduction to Theatre #	4.5
HIST	1020	US History 1877 to Present #	4.5	**ACE SLO 8 Elective** *Select 1 course*			
PHIL	1010	Introduction to Philosophy #	4.5	ECON	1000	Macroeconomics #	4.5
PHIL	2030	Introduction to Ethics #	4.5	PHIL	1030	Professional Ethics #	4.5
ACE SLO 6 Elective *Select 1 course*				**ACE SLO 9 Elective** *Select 1 course*			
CRIM	1010	Introduction to Criminal Justice #	4.5	ECON	2720	International Economics #	4.5
ECON	1100	Microeconomics #	4.5	GEOG	1050	Introduction to Human Geography #	4.5
PSYC	1010	Introduction to Psychology #	4.5	GEOG	2150	World Regional Geography #	4.5
PSYC	1120	Human Growth/Development #	4.5	HIST	1110	World Civilization Prehistory to 1500 #	4.5
PSYC	1130	Cognitive Development #	4.5	HIST	1120	World Civilization II #	4.5
SOCI	1010	Introduction to Sociology #	4.5	PHIL	2200	Introduction to Comparative Religion #	4.5
SOCI	1250	Introduction to Anthropology #	4.5				
Natural Sciences / Quantitative / Numeracy Skills				**Electives** *Choose a minimum of 9 credit hours*			
MATH	2410	Calculus I # +	7.5	INFO	1003	Intro to Computer Programming ^	5
MATH	2411	Calculus II #	7.5	INFO	1522	C++ Programming I ^~	4.5
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PHYS	210ABC	General Physics IA, IB, IC #	7.5				
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