

# Central Community College and UNK

Plan of Study - Physics Comprehensive

Catalog: 2017-2018



Date Revised: 7/6/17

Central Community College			UNK		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
<b>Courses to be completed at Central Community College</b>					
<b>General Studies coursework required</b>					
<b>Foundational Core</b>					
<b>Written Communication (Needs to take ENGL 1020)</b>					<b>12</b>
<b>Math (Needs to take MATH 1600)</b>					<b>3</b>
ENGL 1010	English Composition	3	ENG 101	Introduction to Academic Writing	3
ENGL 1020	Writing and Research	3	ENG 102GS	Academic Writing and Research	3
MATH 1150	College Algebra	3	MATH 102GS	College Algebra	3
MATH 1380	Trigonometry	3	MATH 103GS	Plane Trigonometry	3
MATH 1410	Pre-Calculus	5	MATH 103GS	Plane Trigonometry	3
MATH 1600	Analytic Geometry and Calculus I	5	MATH 115	Calculus I with Analytic Geometry	5
MATH 2000	Mathematics for Elementary Teachers	3	MATH 230GS	Math for Elementary Teachers I	3
MATH 2020	Applied Statistics	3	MATH 241GS	Elementary Statistics	3
MATH 2040	Applied Calculus	3	MATH 123GS	Applied Calculus	3
<b>Oral Communication</b>					<b>3</b>
SPCH 1110	Public Speaking	3	SPCH 100GS	Fundamentals of Speech	3
SPCH 1400	Oral Communication	3	SPCH 100GS	Fundamentals of Speech	3
<b>Democracy in Perspective</b>					<b>3</b>
EDUC 1110	Introduction to Education	3	TE 100	Teaching in a Democratic Society	3
HUSR 1100	Introduction to Human and Social Services	3	SOWK 170GS	Introduction to Social Welfare	3
MART 1010	Mass Media	3	JMC 100GS	Global Media Literacy	3
<b>Portal Course</b>					<b>3</b>
Students transferring in 24 or more hours of General Studies credit are exempt from taking the Portal, but must still complete a total of 45 hours of General Studies credit.					
<b>Distribution</b>					<b>27</b>
<b>Aesthetics</b>					<b>3</b>
ARTS 1010	Introduction to the Visual Arts	3	ART 120GS	Art Appreciation	3
ARTS 1250	Art Fundamentals	3	ART 100GS	Art Structure	3
MUSC 1010	Introduction to Music	3	MUS 100GS	Introduction to Music	3
MUSC 2700	History of Jazz	3	MUS 106GS	Introduction to Jazz and Blues	3
MUSC 2730	History of Rock Music	3	MUS 107GS	Introduction to Rock and Blues	3
THEA 1010	Introduction to Theatre	3	THEA 120GS	Introduction to the Theatre	3
<b>Humanities (At least 6 credit hours from 2 disciplines required)</b>					<b>6</b>
ENGL 2100	Introduction to Literature	3	ENG 254GS	Introduction to Literature: Special Topics	3
ENGL 2340	American Literature	3	ENG 251GS	Introduction to Literature: American Literature	3
ENGL 2370	Non-Western Literature	3	ENG 253GS	Introduction to Literature: Non-Western Civilization	3
HIST 1000	Western Civilization to 1700	3	HIST 210GS	Western Civilization	3
HIST 1010	Western Civilization after 1700	3	HIST 211GS	Western Civilization	3
HIST 1700	World Civilization to 1500	3	HIST 210GS	Western Civilization	3
HIST 1710	World Civilization after 1500	3	HIST 211GS	Western Civilization	3
HIST 2010	American History I	3	HIST 250GS	American History	3
HIST 2020	American History II	3	HIST 251GS	American History	3
HIST 2150	Introduction to Latin America	3	HIST 215GS	Introduction to Latin America	3
PHIL 1010	Introduction to Philosophy	3	PHIL 100GS	Introduction to Philosophy	3
SPAN 2010	Intermediate Spanish I	3	SPAN 200GS	Intermediate Spanish I	3
SPAN 2020	Intermediate Spanish II	3	SPAN 201GS	Intermediate Spanish II	3
<b>Social Sciences (At least 6 credit hours from 2 disciplines required)</b>					<b>6</b>
ANTH 1100	Introduction to Anthropology	3	SOC 250GS	Anthropology	3
CRIM 1010	Introduction to Criminal Justice	3	CJUS 101GS	Introduction to Criminal Justice	3
ECON 1100	Economic Understanding	3	ECON 100GS	Contemporary Economic Issues	3
ECON 2110	Principles of Macroeconomics	3	ECON 270GS	Principles of Economics, Macroeconomics	3
ECON 2120	Principles of Microeconomics	3	ECON 271GS	Principles of Economics, Microeconomics	3
GEOG 1400	Cultural Geography	3	GEOG 106GS	Human Geography	3
HUMS 2200	Introduction to Women's Studies	3	WSTD 220GS	Women's and Gender Studies	3
POLS 1000	American Government	3	PSCI 110GS	Introduction to American Politics	3
POLS 1600	International Relations	3	PSCI 168GS	Introduction to International Relations	3
PSYC 1010	Psychology of Family	3	FSID 351GS	Marriage and Family Relationships	3

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PSYC 1810	Introduction to Psychology	3	PSY 203GS	General Psychology	3
PSYC 2890	Developmental Psychology	3	PSY 230GS	Human Development	3
SOCI 1010	Introduction to Sociology	3	SOC 100GS	Introduction to Sociology	3
SOIC 2150	Issues of Unity and Diversity	3	ETHS 101GS	Introduction to Ethnic Studies	3
SOCI 2160	Marriage and Family	3	FSID 351GS	Marriage and Family Relationships	3
<b>Natural Sciences (Needs to take PHYS 2110)</b>					<b>8</b>
BIOS 1010	General Biology	4	BIOL 103GS	General Biology	4
BIOS 1090	General Botany	4	BIOL 105GS	Biology I	4
BIOS 1120	Principles of Zoology	4	BIOL 106GS	Biology II	4
BIOS 2490	Principles of Microbiology	4	BIOL 211GS	Human Microbiology	4
CHEM 1050	Elements of Chemistry	4	CHEM 145GS	Introductory Chemistry	4
CHEM 1060	Basics of Organic Chemistry	4	CHEM 150GS	Introduction to Organic and Biochemistry	4
CHEM 1090	General Chemistry	4	CHEM 160GS	General Chemistry	3
			CHEM 160LGS	General Chemistry Laboratory	1
CHEM 1100	General Chemistry II	4	CHEM 161GS	General Chemistry	3
			CHEM 161LGS	General Chemistry Laboratory	1
PHYS 1500	Introduction to Physical Geography with Lab	4	GEOG 102GS	Physical Geography II: The Lithosphere	4
BIOS 1060	Environmental Science	3	PHYS 201GS	Earth Science	4
BIOS 1070	Environmental Science Lab	1			
PHYS 1010	Earth Science	3	PHYS 201GS	Earth Science	4
PHYS 1100	Physical Science	4	PHYS 100GS	Physical Science	3
			PHYS 100LGS	Physical Science Laboratory	1
PHYS 1410	General Physics I	5	PHYS 205GS	General Physics I	4
			PHYS 205LGS	Physics I Laboratory	1
PHYS 1420	General Physics II	5	PHYS 206GS	General Physics II	4
			PHYS 206LGS	Physics II Laboratory	1
PHYS 2010	Meteorology: Intro to Atmosphere	4	PHYS 209GS	Meteorology	3
PHYS 2110	General Physics I with Calculus	5	PHYS 275GS	General Physics I (Calculus)	4
			PHYS 275LGS	General Physics I (Calculus) Laboratory	1
PHYS 2120	General Physics II with Calculus	5	PHYS 276GS	General Physics II (Calculus)	4
			PHYS 276LGS	General Physics II (Calculus) Laboratory	1
<b>Analytical and Quantitative Thought (Needs to take at UNK)</b>					<b>3</b>
MATH 2020	Applied Statistics	3	MGT 233GS	Business Statistics	3
BSAD 2020	Business Statistics	3	MGT 233GS	Business Statistics	3
BTEC 1110	Computer and Internet Literacy	3	CSIT 108GS	Computers in Society	3
BTEC 1710	Word Specialist	2	CSIT 1001GS	Computing Environments: Word Processing	3
BTEC 2310	Microsoft Excel Specialist Certification Preparation	1			
BTEC 1720	Excel Specialist	2	CSIT 1002GS	Computing Environments: Spreadsheet	3
BTEC 2320	Microsoft Excel Specialist Certification Preparation	1			
BTEC 1740	Access Specialist	2	CSIT 1003GS	Computing Environments: Date Base	3
BTEC 2340	Microsoft Access Specialist Certification Preparation	1			
INFO 1100	Introduction to Information Technology and Systems	3	ITEC 150GS	Internetworking Literacy	3
INFO 1120	Microcomputer Applications	3	MIS 182GS	Software Productivity Tools	3
INFO 1210	Spreadsheets	3	CSIT 1002GS	Computing Environments: Spreadsheet	3
INFO 1380	Technology in Society	3	CSIT 108GS	Computers in Society	3
INFO 1670	IT Essentials	3	ITEC 150GS	Internetworking Literacy	3
INFO 1700	Database Concepts and Design	3	CSIT 1003GS	Computing Environments: Date Base	3
INFO 1800	Visual Basic Programming	3	CSIT 111GS	Applied Computer Programming	3
INFO 2820	JAVA Programing	3	CSIT 130GS	Introduction to Computer Science	4
INFO 2830	C# Programming	3	CSIT 111GS	Applied Computer Programming	3
MUSC 1470	Music Theory I	3	MUS 200GS	Theory I	3
<b>Wellness</b>					<b>0</b>
NUTR 1470	Nutrition	3	FSID 110GS	Introduction to Nutrition	3
BSAD 1010	Consumer Problems	3	FSID 160GS	Personal Money Management	3
PSYC 2860	Abnormal Psychology	3	PSY 231GS	Abnormal Behavior and Society	3
PHED 1050	Physical Education-Walking and Jogging	3	PE 110GS	Basic Sports	3
PHED 1400	Personal Health	3	PE 150GS	Healthy, Wealthy and Wise	3
<b>Need to reach 27 credit hour minimum in Distribution (Aesthetics, Humanities, Social Sciences, Natural Sciences, Analytical and Quantitative Thought and Wellness) - Pick 1 more credit</b>					<b>1</b>
<b>Capstone</b>					
Transfer students must take this course at UNK					
<b>BS Science-Related Course Requirements</b>					<b>8</b>
CHEM 1090	General Chemistry	4	CHEM 160	General Chemistry	3

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CHEM 1070	General Chemistry	1	CHEM 160L	General Chemistry Laboratory	1
CHEM 1100	General Chemistry II	4	CHEM 161	General Chemistry	3
			CHEM 161L	General Chemistry Laboratory	1
<b>Unrestricted Electives (these can be any kind of courses)</b>					<b>3</b>
<b>Physics Comprehensive Requirements</b>					
PHYS 2120	General Physics II with Calculus	5	PHYS 276	General Physics II (Calculus)	4
			PHYS 276L	General Physics II (Calculus) Laboratory	1
<b>Physics Comprehensive Math Requirements</b>					<b>13</b>
MATH 2070	Analytic Geometry and Calculus 2	5	MATH 202	Calculus 2 with Analytic Geometry	5
MATH 2080	Analytic Geometry and Calculus 3	5	MATH 260	Calculus 3	5
MATH 2210	Differential Equations	3	MATH 305	Differential Equations	3
<b>Physics Comprehensive Math, CSIT or Chemistry Electives</b>					
MATH 2020	Applied Statistics	3	MATH 241GS	Elementary Statistics	3