

Physics Curriculum Facts CNM to UNM

*******IMPORTANT: To assure accuracy based on individual curriculum, student must meet with advisors at CNM and UNM*******

It is recommended that all CNM students seeking B.S. degrees in Chemistry, Physics, or Biology at UNM complete a Foreign Language course prior to full transfer to UNM. Foreign Language is a prerequisite for admission in to the College of Arts and Sciences.

Physics

Physics roadmap is illustrated as a 5-year Physics program that includes the degree coursework of a Physics A.S. at CNM and a Physics B.S. at UNM. It's beneficial for students to transfer to UNM in a Spring semester because of UNM's Physics curriculum sequencing that is specific to a Spring/Fall semester structure. Beginning STEM degree requirements are determined by the level of Math at which student enters degree program; for more information please contact an advisor.

- ENGL 101 and ENGL 102 have received new course numbers: ENGL 110 and ENGL 120. Same course as before, new numbers.
 - ENGL 101= ENGL 110
 - ENGL 102= ENGL 120
- IT 1010 IT 1010
 - All CNM students are eligible to challenge IT 1010. IT 1010 is not a UNM B.S. requirement, but is a CNM A.S. requirement. UNM does not accept credit hours for the completion of IT 1010 challenge exam.
- CSCI 1151/1152/1153 will transfer to UNM and fulfill elective hours, but is not a requirement for UNM Physics B.S. please speak to an advisor for more information.
- In the Roadmap, the semesters reflecting less than full time status (12 credit hours), it is strongly advised that students meet with UNM departmental advisor.

For further questions regarding Transfer to UNM in the STEM fields contact:

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Developing STEM Pathways for the Future



Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester One:					
CHEM 1710/1792	4	4	4	CHEM 121/123I	4
ENG 1101	3	3	3	ENGL 110	3
IT 1010	3	3	3		3
Social/Behavioral Science	3	3	3		3
Total:	13	13	10		10

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Two:					
CHEM 1810/1892	4	4	4	CHEM 122/124I	4
ENG 1102	3	3	3	ENGL 120	3
*CSCI 1151/1152/1153	4	4	4	ECE131; CS 152L/151	3
Social/Behavioral Science	3	3	3		3
Total:	14	14	10		13

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Summer Semester:					
Total:	0	0	0		0

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Three:					
Physics 1710/1792	5	5	5	PHVC 160/160L	4
MATH 1710	4	4	4	MATH 162	4
COMW 1130	3	3	3	CSJ 130	3
Total:	12	12	7		11

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Four:					
Physics 1810/1892	5	5	5	PHVC 161/161L	4
MATH 1715	4	4	4	MATH 163	4
Humanities	3	3	3		3
Total:	12	12	3		11

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Summer Semester:					
Total:	0	0	0		0

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Five:					
Physics 2710	4	4	4	PHVC 262/262L	4
MATH 2710	4	4	4	MATH 264	4
Humanities	3	3	3		3
Fine Arts	3	3	3		3
Total:	14	14	6		14
A.S. Totals	65	65	39		59

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Six:					
Physics 330	3	3	3	Prerequisite PHVC 262(CNM's PHYS 2710)	3
Physics 331	1	1	1	Prerequisite PHVC 262(CNM's PHYS 2710)	1
MATH 316	3	3	3	Prerequisite Math 163(CNM's Math 1715) & CS 131(CNM's CSCI 1131)	3
Physics 290	3	3	3	Prerequisite PHVC 262; Course only offered in Spring	3
Foreign Language	3	3	3		3
Total:	13	13	6		10

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Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Seven:					
Physics 303	3	3	3	Prerequisite Math 316; Corequisite PHVC 366 Highly Recommended	3
Physics 313	1	1	1	Corequisite PHVC 303	1
Physics 301	3	3	3	Prerequisite PHVC 330	3
Physics 311	1	1	1	Corequisite PHVC 301	1
Physics 306L	3	3	3	Prerequisite PHVC 290 & PHVC 330 Highly Recommended	3
Physics 366	4	4	4	Prerequisite PHVC 290 & Math 316	4
Total:	15	15	15		15

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Eight:					
Physics 304	3	3	3	Prerequisite PHVC 303 & PHVC 366 or Math 312	3
Physics 314	1	1	1	Corequisite PHVC 304	1
Physics 307L	3	3	3	Prerequisite PHVC 290 & PHVC 330 Highly Recommended	3
Physics 405	3	3	3	Prerequisite PHVC 366 or Math 311 & 312	3
Physics 415	1	1	1	Corequisite PHVC 405	1
Math 314	3	3	3	Prerequisite Math 163(CNM's Math 1715) & CS 131(CNM's CSCI 1131)	3
Total:	14	14	3		14

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Nine:					
Physics 406	3	3	3	Prerequisite PHVC 405	3
Physics 416	1	1	1	Corequisite PHVC 406	1
Physics 491	3	3	3	Prerequisite PHVC 330 & Math 314	3
Physics 496	1	1	1	Corequisite PHVC 491	1
Total:	8	8	8		8

Course Subject and Title	Cr. Hrs.	CNM Major	Core	UNM Equivalent	UNM Major
Semester Ten:					
Physics 493L	3	3	3	Prerequisite PHVC 307L/Pre-req PHVC 491 Highly Recommended	3
Physics 492	3	3	3	Prerequisite PHVC 491	3
Physics 497	1	1	1	Corequisite PHVC 492	1
Physics Elective	3	3	3		3
Total:	10	10	10		10
B.S. Totals	125	9	57		

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Degree Transfer Agreement Fall 2013 – Summer 2016 based on 2013-2014 CNM and UNM Catalogs

Central New Mexico Community College A.S. Physics

For transfer into

University of New Mexico B.S. Physics

- This Degree Transfer Agreement fulfills all A.S. Physics requirements at CNM and Admissions requirements to UNM's Physics program.
- Prospective students must have a minimum overall 2.00 GPA (including transfer and UNM credit) and have completed all courses with a "C" or better; "C-" will not fulfill requirements.
- Please speak with your STEM Advisor if you have AP or CLEP credit, which could fulfill certain course requirements below.
- **Pay attention to prerequisite course requirements** and plan courses accordingly. Prerequisites may be different at each institution. Please speak with your STEM Advisor.

CNM A.S. Physics		UNM B.S. Physics	
Computer Courses			
IT 1010 (3) OR CHALLENGE EXAM	Introduction to Computers	Not required for Physics majors at UNM, but meets A.S. requirement at CNM	
Mathematics Core			
Math placement is determined by Accuplacer exam, ACT or SAT scores.			
MATH 1710 (4)	Calculus I	MATH 162 (4)	Calculus I
MATH 1715 (4)	Calculus II	MATH 163 (4)	Calculus II
MATH 2710 (4)	Calculus III	MATH 264 (4)	Calculus III
Computer Science Course			
Only choose one of the following courses below:			
CSCI 1151 (4) Or CSCI 1152 (4) Or CSCI 1153 (4)	Intro to Programming for Non-Computer Majors Intro to Programming for Computer Science Majors Programming Matlab	ECE 131 (3) Or CS 152L (3) Or CS 151L (3)	Programming Fundamentals Computer Programming Fund. Computer Programming Fundamentals for Non-Majors
Science Courses			
Take the Chemistry and Physics course sequences as listed below:			
CHEM 1710 (3) CHEM 1792 (1)	General Chemistry I General Chemistry I Lab	CHEM 121 (3) CHEM 123L (1)	General Chemistry General Chemistry Lab
CHEM 1810 (3)	General Chemistry II	CHEM 122 (3)	General Chemistry II

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CHEM 1892 (1)	General Chemistry II Lab	CHEM 124L (1)	General Chemistry II Lab
PHYS 1710 (4)	Physics for Scientists and Engineers I	PHYC 160 (3)	General Physics
PHYS 1792 Lab I (1)	Physics for Scientists and Engineers	PHYC 160L (1)	General Physics Lab
PHYS 1810 II (3)	Physics for Scientists and Engineers	PHYC 161 (3)	General Physics
PHYS 1892 Lab I (1)	Physics for Scientists and Engineers	PHYC 161L (1)	General Physics Lab
PHYS 2710 III (4)	Physics for Scientists and Engineers	PHYC 262 (3)	General Physics
		PHYC 262L (1)	General Physics Lab
Communications Core			
ENG 1101 and ENG 1102 are required, choose between remaining to complete Communications core:			
ENG 1101 (3)	College Writing	ENGL 110 (3)	Composition I: Exposition
ENG 1102 (3)	Analytic & Argumentative Writ	ENGL 120 (3)	Composition II: Analysis & Argum
COMM 1130 (3)	Public Speaking	CJ 130 (3)	Public Speaking
Or		Or	
COMM 2221 (3)	Interpersonal Communications	CJ 221 (3)	Interpersonal Communications
Humanities Core			
Choose two courses below:			
ENG 1150 (3)	Study of Literature	ENGL 150 (3)	The Study of Literature
ENG 2262 (3)	Survey of Earlier World Lit.	ENGL 292 (3)	World Literature: Ancient World Through the 16 th Century
ENG 2263 (3)	Survey of Later World Lit.	ENGL 293 (3)	World Literature: 17 th Century Through the Present
HIST 1101 (3)	Western Civilization I	HIST 101L (3)	Western Civilization to 1648
HIST 1161 (3)	History of the United States I	HIST 161L (3)	History of the U.S. to 1877
HIST 1162 (3)	History of the United States II	HIST 162L (3)	History of the U.S. Since 1877
HIST 1182 (3)	Modern Latin American History	HIST 182 (3)	Modern Latin American History
PHIL 1110 (3)	Intro. to Philosophical Thought	PHIL 101 (3)	Introduction to Philosophy
RLGN 1107 (3)	Living World Religions	RELG 107 (3)	Living World Religions
RLGN 2263 (3)	Eastern Religions	RELG 263 (3)	Eastern Religions
Fine Arts Core			
Choose one course below:			
ARTH 1101 (3)	Introduction to Art	ARTH 101 (3)	Introduction to Art

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ARTH 2201 (3)	History of Art I	ARTH 201 (3)	History of Art I
ARTH 2202 (3)	History of Art II	ARTH 202 (3)	History of Art II
MUS 1139 (3)	Early Music Appreciation	MUS 139 (3)	Music Appreciation
MUS 1140 (3)	Modern Music Appreciation	MUS 1T (3)	Music Appreciation
THEA 1122 (3)	Introduction to Theater	THEA 105 (3)	Theatre Appreciation
Social/Behavioral Sciences Core			
Choose two courses below:			
PSY 1105 (3)	Introduction to Psychology	PSY 105 (3)	General Psychology
ANTH 1101 (3)	Introduction to Anthropology	ANTH 101 (3)	Introduction to Anthropology
ANTH 1110 (3)	Lang., Culture & Human Animal	ANTH 110 (3)	Lang., Culture & Human
ANTH 1130 (3)	Cultures of the World	ANTH 130 (3)	Cultures of the World
ECON 2200 (3)	Macroeconomics	ECON 105 (3)	Introductory Macroeconomics
ECON 2201 (3)	Microeconomics	ECON 106 (3)	Introductory Microeconomics
GEOG 1102 (3)	Human Geography	GEOG 102 (3)	Human Geography
PSCI 1110 (3)	The Political World	POLS 110 (3)	The Political World
PSCI 2200 (3)	US Politics	POLS 200 (3)	American Politics
PSCI 2220 (3)	Comparative Gov. and Politics	POLS 220 (3)	Comparative Politics
PSCI 2240 (3)	International Politics	POLS 240 (3)	International Politics
SOC 1101 (3)	Introductory to Sociology	SOC 101 (3)	Introduction to Sociology
TOTAL CREDITS	(65)	TOTAL CREDITS	(60)

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