

Physics, B.S.

North Carolina Community College classes are listed below in left column. The UNC Charlotte equivalent course is listed in the column next to the NCCCS courses.

The University of North Carolina at Charlotte strongly recommends students complete their Associate degree prior to transferring to UNC Charlotte. Pathways are structured for students who have completed all requirements for their Associate degree and qualify for the CAA.

Please Note: BDP's are developed based on the approved curriculum for each catalog year. Based on admitted term of entry and the curriculum posted for the catalog year, programs of study are subject to change.

UNC Charlotte Baccalaureate Degree Plans
physics.charlotte.edu

Additional Requirements / Special Note for Admission to the upper division in major:	
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		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Semester 1 15 Credit Hrs	4	MAT 171: Precalculus Algebra ** UGETC: Math	MATH 1100: College Algebra **	
	4	CHM 151: General Chemistry I **	CHEM 1251: Principles of Chemistry I ** plus CHEM 1251L Lab	
	3	ENG 111: Writing and Inquiry UGETC: Composition	WRDS 1103 Wrtnng & Inqry Acdmc Ctx I & II	
	3	Student Choice UGETC: Humanities/ Fine Arts	General Education Course	
	1	ACA 122: College Transfer Success	TRNF 1ELE: Transfer Elective	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Semester 2 16 Credit Hrs	4	MAT 172: Precalculus Trigonometry ** UGETC: Math	MATH 1103: Pre-Calculus Math **	
	3	ENG 112: Writing and Research in the Disciplines UGETC: Composition	CTCM 2530: Critical Thinking and Communications	
	3	Student Choice UGETC: Social/Behavioral	General Education Course	
	3	COM 120: Interpersonal Communications or COM 231: Public Speaking UGETC Arts/Humanities	COMM 2107: Interpersonal Communications or COMM 1101: Public Speaking	
	3	Additional GEN ED or Pre-Major/Transfer Elective	Additional GEN ED or Pre-Major/Transfer Elective	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Summer 4 Credit Hrs	4	MAT 271: Calculus I **	MATH 1241: Calculus I **	Recommended term if students do not directly start in MAT 271

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Semester 3 14 Credit Hrs	4	MAT 272: Calculus II *	MATH 1242: Calculus II *	
	4	PHY 251: General Physics I ** UGETC: Natural Science	PHYS 2101: Physics for Science I ** Plus PHYS 2101L Lab	
	3	Student Choice UGETC: Social/Behavioral	General Education Course	
	3	Additional GEN ED or Pre-Major/Transfer Elective	Additional GEN ED or Pre-Major/Transfer Elective	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Semester 4 14 Credit Hrs	4	PHY 252: General Physics II ** UGETC: Natural Science	PHYS 2102: Physics for Science II ** Plus PHYS 2102L Lab	
	3	MAT 285: Differential Equations **	MATH 2171: Differential Equations **	Departmental Exemption for PHYS 3101*
	4	MAT 273: Calculus III	MATH 2241: Calculus III **	
	3	Additional GEN ED or Pre-Major/Transfer Elective	Additional GEN ED or Pre-Major/Transfer Elective	

Critical Course Indicator	
2 Star (**) Critical Course	Critical Success Course that is a required introductory or prerequisite course within the Major and/or prerequisite course for UNC Charlotte Upper Division coursework for intended major
1 Star (*) Critical Course	Critical Success Course necessary for seamless transition and required for UNC Charlotte Upper Division coursework for intended major
only) Critical Course	Key Success Marker Course that is important for seamless transition but can be secured after transfer

Color Key	Category
Light Green	Success Marker Course (Critical Course)
Light Blue	UGETC: General Education Course
Light Orange	Additional GEN ED or Pre-Major/Transfer Elective

		UNC Charlotte Equivalent Course	Notes
Semester 5 15 Credit Hrs	3	PHYS 3121: Classical Mechanics I	
	3	PHYS 3220: Mathematical Methods	
	3	PHYS 3210: Computational Physics	
	3	PHYS 3141: Modern Physics	
	3	General Elective	

		UNC Charlotte Equivalent Course	Notes
Semester 6 15 Credit Hrs	3	PHYS 3282: Modern Physics Lab	
	3	PHYS 4231: Electromagnetic Theory I	
	3	PHYS 4222: Classical Mechanics II	
	3	PHYS 4271: Waves & Optics	
	3	PHYS 3102: Physics III	

		UNC Charlotte Equivalent Course	Notes
Semester 7 15 Credit Hrs	3	PHYS 4241: Quantum Mechanics I	
	3	PHYS 4232: E&M Theory II	
	3	PHYS 4281: Modern Optics Lab	
	3	PHYS Elective Course (3000/4000 level)	
	3	General Elective	

		UNC Charlotte Equivalent Course	Notes
Semester 8 15 Credit Hrs	3	PHYS 4151: Thermal Physics	
	3	PHYS Elective Course (3000/4000 level)	
	3	General Elective	
	3	General Elective	
	3	General Elective	

63	Total NCCCS Credit Hours
60	Total UNC Charlotte Hours
123	Total Credit Hours