

226P: Natural Sciences A S Degree Requirements Table PHYSICS CONCENTRATION

FALL 2022 to CURRENT

ITEM	REQUIREMENT	CREDITS	SEMESTER
1	GCC CORE (LIBERAL ARTS & SCIENCES) LOCAL GENERAL EDUCATION REQUIREMENTS	33	As Listed
1a	MATHEMATICS MAT 141 Calculus 1 (per Note 1)	4	1st
1b	NATURAL SCIENCE CHE101 General Chemistry 1	4	1st
1c	SOCIAL SCIENCE Select one SUNY Approved Social Science Course	3	4th
1d	HISTORY Select one: GEO 101, HIS 101, 102, 104, 105, 203, or 204	3	4th
1e	HUMANITIES, ARTS, LANGUAGE Select one SUNY Approved Arts or Humanities Course	3	3rd
1f	BASIC COMMUNICATION 1 ENG101	3	1st
1g	BASIC COMMUNICATION 2 ENG 102	3	2nd
1h	BASIC COMMUNICATION 3 SPE103, 108, or 109	3	3rd
1i	LIB ARTS & SCI ELECTIVE CHE102 General Chemistry 2	4	2nd
1j	SUNY GEN ED SELECTION Select one SUNY Approved Foreign Language Course (per Note 2)	3	4th
1k	HEALTH/PE/ATH Waived for Physics Concentration	0	N/A
2	PROGRAM REQUIREMENTS	31	As Listed
2a	PHY 131 Physics with Calculus 1	4	1st
2b	PHY 132 Physics with Calculus 2	4	2nd
2c	PHY 133 Physics with Calculus 3	4	3rd
2d	MAT 142 Calculus 2	4	2nd
2e	MAT 245 Calculus 3	4	3rd
2f	CIS 127 Computing in Math, Science and Engineering	4	3rd
2g	MAT 246 Linear Algebra	4	4th
2h	MAT 255 Differential Equations	3	4th
3	TOTAL CREDITS REQUIRED	64	Upon Completion
3a	Semester 1 Total Credits	15	1st
3b	Semester 2 Total Credits	15	2nd
3c	Semester 3 Total Credits	17	3rd
3d	Semester 4 Total Credits	17	4th

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4	GENERAL CURRICULUM INFORMATION	0	N/A
4a	Proficiency Requirements: As outlined in Procedure 321-Placement and Proficiency Requirements (click to see GCC Placement and Proficiency Guide for details), all students are required to demonstrate proficiency in reading, math, and writing skills prior to earning a college degree or certificate from Genesee Community College.	0	Prior to Completion
4b	Electives: Electives for this program should be selected with the transfer institution and program of interest in mind. For additional assistance with course selection, see the Transfer Coordinator in the Student Success Center.	0	As Appropriate
4c	Restricted Electives: BIO111, BIO115, BIO116, BIO152, BIO153, BIO201 or BIO206, BIO205, BIO211, CHE201, CHE202, CIS116, CIS125, CIS 127 CIS219, EGR 100, EGR235, EGR236, MAT129, MAT 140, MAT141, MAT142, MAT245, MAT247, MAT255, MAT 246, PHY121 or PHY131, PHY122 or PHY132, PHY133	0	As Appropriate
4d	Note 1: Course meets concentration and Local General Education Plan Requirement	0	Informational Note
4e	Note 2: Students having obtained an 85 or higher on the Regents B exam or an 85 or higher on a regional exam aligned with the former regents at Checkpoint B have met this requirement and may select a language or an additional 3-credit SUNY approved general education elective.	0	As Applicable
4f	Note 3: Students who select restricted electives with higher credits may complete up to 35 program credits.	0	Informational Note
4g	Minimum QPI: 2.00	0	Upon Completion