Secondary Education Major (with) Integrated Science Major (5-9, 7-12) With Emphasis in Physics (for Freshman beginning Fall 2023) Updated May 2025

This advising sheet lays out a basic 4-year plan with all of the components necessary to graduate and become certified in Secondary Integrated Science (5-9, 7-12). Candidates who wish to choose Integrated Science (5-9, 7-12) will have to add an emphasis in either Biology, Chemistry, Geology, or Physics. A candidate's actual 4-year plan should be worked out with an education advisor.

Anchor Plan (39 credits)

The Anchor Plan is required for all Hope College students and represents the general education liberal arts program. The following chart explains these requirements.

Requirement	Rule	Attribute
First Year Seminar	One IDS 100 -3 credits	FYS
Expository Writing	ENGL 113 -3 credits	EW
Health Dynamics	KIN 140 -2 credits	HD
Math and Natural Sciences	One math course -3/4 credits	MA
*satisfied by major- no	One NSL course -4 credits	NSL
additional courses	Any math or science course to reach 10 credits*	MNS
required	total	
Religion	One REL 100 course -3 credits	RL1
	One REL 200 course -3 credits	RL2
	*One course must have Christian Tenets	*TEN
Social Sciences	Sciences Both Social Science courses will be satisfied by	
*satisfied by major- no	o students taking EDUC 200/1 and EDUC 457.	
additional courses		
required		
Arts and Humanities	One Arts in Practice -2/3 credits	ART
	One Human Creative Perspectives -3 credits	HCP
	One Philosophical Perspectives -3 credits	PHL
	One Historical Perspectives -3 credits	HST
	*Prerequisite: ENGL 113 and one 100-level Arts and	
	Humanities	
Human Diversities	Global Language- 3 credits of second-level fluency	GL2
*GLP courses can also	One US Diversities course (satisfied by EDUC	USD
count in another area	200/1)	
	One Global Perspectives course -3 credits*	GLP
Senior Seminar	IDS 452 or IDS 492 if not taking it during student	SRS
	teaching -3 credits	

Secondary Education Major (44 credits)

The professional sequence for all secondary education majors is listed below and is separated by level. Level 1 courses are designed to help candidates decide if education is the right career path. Once completed, candidates must choose their primary grade band, either 5-9 or 7-12. The other grade band becomes their secondary grade band. Level 2 courses are designed to have candidates learn the art of teaching. During Level 2 coursework, candidates must have 50 hours of clinical experience in their secondary grade band. Level 3 courses are taken during the student teaching semester, and placement should be in a candidate's primary grade band.

Course #	Course Title	Credits
Level 1		
EDUC 200/1	Diversity, Equity, and Inclusion/Clinical Experience	3+1
EDUC 225/6	The Exceptional Child and Adolescent/Clinical Experience	3+1
EDUC 270	Foundations of Education	
Level 2	All candidates should apply for admission to the department	
	during the semester when all three level 1 courses have been	
	satisfied.	
EDUC 275	Intro to Secondary Education and Instructional Design	3
EDUC 285/6	Literacy in the Content Area/Clinical Experience	
EDUC 287	Classroom Management	
EDUC 320	Assessment for Secondary Education	3
EDUC 331/2	Teaching Secondary School Science/Clinical Experience	3+1
EDUC 360/1	Secondary Principles/Clinical Experience	3+1
Level 3	All candidates should attend an informational meeting and	
	apply to student teach two semesters before the semester they	
	wish to student teach in.	
EDUC 457	Student Teaching Seminar	2
EDUC 481 or	Student Teaching Secondary School (5-9) or	10
EDUC 483	Student Teaching Secondary School (7-12)	

Secondary Education Integrated Science Major (35 Credits) 5-9/7-12 grade band

Course #	Course Title	Credits	Offered
BIO 105/107	General Biology I and Lab	3+1	F
BIO 106/108	General Biology II and Lab	3+1	S
CHEM 125 /127	General Chemistry I and Lab	3+1	F
CHEM 126 /128	General Chemistry II and Lab	3+1	S
PHYS 105 /141	College Physics I and Lab	3+1	F
PHYS 106 /142	College Physics II and Lab	3+1	S
GES 100 / 100L (GEMS 157/L)	Planet Earth and Lab	3+1	F, S
GES 203 /203L*	Historical Geology and Lab	3+1	S
GEMS 206	The Night Sky	3	F, S

^{*} offered spring 2026, then every other year after that.

Secondary Education Integrated Science Major with Physics Emphasis (Grades 7-12) (Additional 17 total credits)

Course #	Course Title	Credits	Offered
PHYS 270	modern physics	4	F
PHYS 280/1	intro to mathematical physics/lab	5	S
MATH 131	calc I	4	F, S
MATH 132	calc II	4	F, S

Anchor Plan: 39 credits Sec Ed: 44 credits

Integrated Science: 35 credits Bio Concentration: 17 credits Total: 135 credits with no electives

4-year plan Secondary Integrated Science with Biology Emphasis

This 4-year plan was intentionally constructed based on the sequential and scaffolded learning that will help candidates stay on track and be successful in the program. Any deviation from the plan should be done in conjunction with a candidate's education advisor.

	Fall – Year 1		Spring – Year 1		Summer – Year 1	
	COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS
Education	EDUC 200/201	4	EDUC 225/226	4		
Courses	BIOL 105/107 (f)	4	BIO 106/108 (s)	4		
Int-Sci/GES	IDS 100 (FYS)	3	EDUC 270	3		
Courses	ENGL 113 (EW)	3	LANG (GL2)	3		
Anchor	KIN 140 (HD)	2	ART	2/3		
Plan						
		16		16/17		
	Fall – Year		Spring – Y		Summer -	- Year 2
	EDUC 275	3	EDUC 285/286	4		
	CHEM 125/127 (f)	4	CHEM 126/128 (s		REL 100	
	GES 100/100L	4	GES 203/203L (s)	4	(RL1)	
	MATH 131	4	MATH 132	4		
		15		16		
	Fall – Year		Spring – Y	-	Summer -	- Year 3
	PHYS 270 (f)	4	PHYS 106/142 (s)			T cur s
	PHYS 105/141 (f)	4	PHYS 280/1 (s)	5		
	REL 200 (RL2)	3	EDUC 287	3		
	EDUC 331/332	4	GEMS 206	3		
		15		15		
	Fall – Year	4	Spring – Y		Summer -	- Year 4
*IDS 492	EDUC 360/361	4	EDUC 457	2		
Can be	IDS 492 (SRS)	3	EDUC 483 (7-12)	or 10		
substituted	HST	3	EDUC 481 (5-9)			
if not taken	HCP	3				
during	PHL	3				
student						
teaching		16		12		