Secondary Education Major (with) Integrated Science Major (5-9, 7-12) With Emphasis in Chemistry
(for Freshman beginning Fall 2023)
Updated February 2024
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 (31-32 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 *satisfied by major-no additional courses required | One math course $\mathbf{- 3 / 4}$ credits <br> One NSL course -4 credits <br> Any math or science course to reach $\mathbf{1 0}$ credits* total | $\begin{aligned} & \text { MA } \\ & \text { NSL } \\ & \text { MNS } \end{aligned}$ |
| Religion | One REL 100 course -3 credits One REL 200 course -3 credits *one course must have Christian Tenets | $\begin{gathered} \text { RL1 } \\ \text { RL2 } \\ \text { *TEN } \end{gathered}$ |
| Social Sciences *satisfied by major-no additional courses required | Both Social Science courses will be satisfied by students taking EDUC 200/1 and EDUC 457. | $\begin{aligned} & \text { SS1 } \\ & \text { SS2 } \end{aligned}$ |
| Arts and Humanities | One Arts in Practice $-2 / 3$ credits <br> One Human Creative Perspectives -3 credits <br> One Philosophical Perspectives -3 credits <br> One Historical Perspectives - 3 credits <br> *Prerequisite: ENGL 113 and one 100 level Arts and Humanities | $\begin{aligned} & \text { ART } \\ & \text { HCP } \\ & \text { PHL } \\ & \text { HST } \end{aligned}$ |
| Human Diversities *GLP courses can also count in another area | Global Language-3 credits of second level fluency One US Diversities course (satisfied by EDUC 200/1) <br> One Global Perspectives course - $\mathbf{3}$ credits* | $\begin{aligned} & \text { GL2 } \\ & \text { USD } \\ & \text { GLP } \\ & \hline \end{aligned}$ |
| Senior Seminar | IDS 452 or IDS 492 if not taking it during student teaching -3 credits | SRS |

## Secondary Education Major (44 credits)

5-9/ 7-12 grade band
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 | 3 |
| Level 2 | All candidates should apply for admission to the department <br> during the semester that all three level 1 courses have been <br> satisfied. |  |
| EDUC 275 | Intro to Secondary Education and Instructional Design | 3 |
| EDUC 285/6 | Literacy in the Content Area/Clinical Experience | $3+1$ |
| EDUC 287 | Classroom Management | 3 |
| 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 <br> apply to student teach two semesters before the semester they <br> wish to student teach in. |  |
| EDUC 457 | Student Teaching Seminar |  |
| EDUC 481 or <br> EDUC 483 | Student Teaching Secondary School (5-9) or <br> Student Teaching Secondary School (7-12) | 2 |

## Secondary Education Integrated Science Major (35 Credits) <br> 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 | 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 |

## Secondary Education Integrated Science Major with Chemistry Emphasis (Grades 7-12) (Additional 13 total credits)

| Course \# | Course Title | Credits |
| :--- | :--- | :---: |
| CHEM 221/255 | Organic Chemistry I/Organic Chemistry Lab | $3+2$ |
| CHEM 322/324 | Inorganic Chemistry/Inorganic Chemistry Lab | $3+1$ |
| CHEM 331/332 | Analytical Chemistry/Analytical Chemistry Lab | $3+1$ |

4-year plan Secondary Integrated Science with Chemistry 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 to the plan should be done in conjunction with a candidate's education advisor.


