

B.A. in Science Education 9-12 (Physics Emphasis) Enhanced Academic Plan

B.A. in Science Education 9-12 (Physics Emphasis) - CWILT

Recommended Courses				
Fall Semester 1	Interim Semester 1	Spring Semester 1	Career Planning and Preparation	R.E.A.L. Experience
PHY 292 & PHY 292D General Physics I and General Physics I Lab MAT 124M Calculus 1	GES 125 Introduction to the Creative Arts	PHY 296 & PHY 297 General Physics II and General Physics II Lab MAT 125 Calculus 2	PHASE 1: EXPLORE <i>Explore self, careers, & God's call</i>	Create your R.E.A.L. Portfolio
GES 130 Christianity Western Culture		BIB 101 Introduction to the Bible	Take a Career Assessment	Consider joining a club or ministry of interest
GES 160 Inquiry Seminar		GES 140 Introduction to Wellbeing	Research Careers: O*Net, Candid Careers, & informational interviews w/ Alums	Consider finding a mentor
15	4	14	Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering	
MILESTONES: Consider study abroad options				
Recommended Courses				
Fall Semester 2	Interim Semester 2	Spring Semester 2	Career Planning and Preparation	R.E.A.L. Experience
CHE 113 & CHE 113D General Chemistry I and General Chemistry I Lab MAT 223 Multivariable Calculus	Interim Off	CHE 214 & CHE 215 General Chemistry II and General Chemistry II Lab EDU 200 Introduction to Education	PHASE 1&2: EXPLORE/EXPERIENCE <i>Finalize major if necessary & begin gaining experience</i>	Continue adding artifacts and reflections to your R.E.A.L. Portfolio.
PHY 302 & PHY 303 Electronics and Electronics Lab		EDU 201 Introduction to Education Field Experience	Create/update Resume & LinkedIn	Consider taking a leadership position with a student club.
PHY 260 Careers in Engineering and Physics Seminar		PHY 312 & PHY 313 Modern Physics and Modern Physics Lab	Build professional network (e.g. informational interviews)	Consider going on a spring break mission trip.
Second Language (S) course*1		THE 201 Christian Theology	Attend Spring Career Fair	
16	0	15	Obtain Internship or relevant job by summer	
MILESTONES: Consider doing an online course over the summer				
Recommended Courses				
Fall Semester 3	Interim Semester 3	Spring Semester 3	Career Planning and Preparation	R.E.A.L. Experience
PHY 112 & PHY 112D Introduction to Astronomy and Introduction to Astronomy Lab Interpreting Biblical Themes (J) course	World Cultures (U) course*2	EDU 203 School Health and Drugs	PHASE 2: EXPERIENCE <i>Use experineces to narrow down career choice & develop relevant skills</i>	Review your R.E.A.L. Portfolio and prepare to make it public.
Science, Technology & Society (K) course		EDU 241 Educational Psychology Field Experience	Participate in Fall & Spring Recruiting to obtain an internship	Consider studying abroad.
Leisure and Lifetime sports (Q) course		EDU 240 Educational Psychology	Schedule a Mock Interview	Consider applying for a Student Leadership Position in Student Life.
Elective		PHY 352 & PHY 353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	Explore Grad Schools & Take Entrance Exams (e.g. GRE) if necessary	Consider being a TA for a favorite class.
13	3	13	Expand Professional Network	
MILESTONE: A minimum 3.2 GPA in your major is a good goal to strive for				
Recommended Courses				
Fall Semester 4	Interim Semester 4	Spring Semester 4	Career Planning and Preparation	R.E.A.L. Experience
EDU 317GZ Educational Equity	Contemporary Christian Issues (P) course	EDU 490 Student Teaching Block	PHASE 3: EXECUTE <i>Execute an effective job or grad school search</i>	Continue updating your public R.E.A.L. Portfolio with relevant experiences and reflection.
EDU 320 Pedagogy and the Young Adolescent Learner			Participate in Fall and Spring Recruiting	Consider mentoring an underclassman.
EDU 321 Integrated Literacy in the Content Areas			Apply for Graduate School if necessary	
EDU 420 Methods in Teaching 5-12 Science			Expand Professional Network	
EDU 429 Science Education Practicum in Grades 5-8 or 5-12				
Artistic Experience (A) course				
Elective				
12-15	3	14		
Total Credits: 123-130				
*1 Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)				
2. The Education Department offers an interim trip that meets the U requirement - EDU 236UZ or EDU 204UZ. See Education Abroad Options.				
This program assumes a student will use PHY292/292D, EDU317GZ, and MAT124M to meet the general education Laboratory Science, Comparative Systems, and Math requirements.				
Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit load falls below 15 credits/semester. (Interim credits may be split between fall and spring for state grant purposes only.)				

B.A. in Science Education 9-12 (Physics Emphasis) Enhanced Academic Plan

B.A. in Science Education 9-12 (Physics Emphasis) - Humanities

Recommended Courses				
Fall Semester 1	Interim Semester 1	Spring Semester 1	Career Planning and Preparation	R.E.A.L. Experience
PHY 292 & PHY 292D General Physics I and General Physics I Lab MAT 124M Calculus 1 GES 145 Humanities I: Greco-Roman through Middle Ages BIB 101 Introduction to the Bible 15	GES 147 Humanities II: Renaissance and Reformation 4	PHY 296 & PHY 297 General Physics II and General Physics II Lab MAT 125 Calculus 2 GES 244 Humanities III: European Enlightenment and American Culture to 1877 GES 140 Introduction to Wellbeing 15	PHASE 1: EXPLORE <i>Explore self, careers, & God's call</i> Take a Career Assessment Research Careers: O*Net, Candid Careers, & informational interviews w/ Alums Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering	Create your R.E.A.L. Portfolio Consider joining a club or ministry of interest Consider finding a mentor
MILESTONES: Consider study abroad options				
Recommended Courses				
Fall Semester 2	Interim Semester 2	Spring Semester 2	Career Planning and Preparation	R.E.A.L. Experience
CHE 113 & CHE 113D General Chemistry I and General Chemistry I Lab MAT 223 Multivariable Calculus PHY 302 & PHY 303 Electronics and Electronics Lab GES 246 Humanities IV: Modern and Contemporary Western Culture PHY 260 Careers in Engineering and Physics Seminar 4	EDU 200 Introduction to Education EDU 201 Introduction to Education Field Experience 4	CHE 214 & CHE 215 General Chemistry II and General Chemistry II Lab EDU 200 Introduction to Education EDU 201 Introduction to Education Field Experience PHY 312 & PHY 313 Modern Physics and Modern Physics Lab Secondary Language (S) Course*1 16	PHASE 1&2: EXPLORE/EXPERIENCE <i>Finalize major if necessary & begin gaining experience</i> Create/update Resume & LinkedIn Build professional network (e.g. informational interviews) Attend Spring Career Fair Obtain Internship or relevant job by summer	Continue adding artifacts and reflections to your R.E.A.L. Portfolio. Consider taking a leadership position with a student club. Consider going on a spring break mission trip.
MILESTONES: Consider doing an online course over the summer				
Recommended Courses				
Fall Semester 3	Interim Semester 3	Spring Semester 3	Career Planning and Preparation	R.E.A.L. Experience
PHY 112 & PHY 112D Introduction to Astronomy and Introduction to Astronomy Lab Interpreting Biblical themes (J) course Science, Technology and Society (K) course Leisure and Lifetime Sports (Q) course Elective 14	World Cultures (U) course*2 3	EDU 203 School Health and Drugs EDU 220 Introduction to Middle Level Education EDU 240 Educational Psychology EDU 241 Educational Psychology Field Experience PHY 352 & PHY 353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab 13	PHASE 2: EXPERIENCE <i>Use experiences to narrow down career choice & develop relevant skills</i> Participate in Fall & Spring Recruiting to obtain an internship Schedule a Mock Interview Explore Grad Schools & Take Entrance Exams (e.g. GRE) if necessary Expand Professional Network	Review your R.E.A.L. Portfolio and prepare to make it public. Consider studying abroad. Consider applying for a Student Leadership Position in Student Life. Consider being a TA for a favorite class.
MILESTONE: A minimum 3.2 GPA in your major is a good goal to strive for				
Recommended Courses				
Fall Semester 4	Interim Semester 4	Spring Semester 4	Career Planning and Preparation	R.E.A.L. Experience
EDU 317GZ Educational Equity EDU 320 Pedagogy and the Young Adolescent Learner EDU 321 Integrated Literacy in the Content Areas EDU 420 Methods in Teaching 5-12 Science EDU 429 Science Education Practicum in Grades 5-8 or 5-12 Artistic Experience (A) course Electives 12-18	Contemporary Christian Issues (P) course 3	EDU 490 Student Teaching Block 14	PHASE 3: EXECUTE <i>Execute an effective job or grad school search</i> Participate in Fall and Spring Recruiting Apply for Graduate School if necessary Expand Professional Network	Continue updating your public R.E.A.L. Portfolio with relevant experiences and reflection. Consider mentoring an underclassman.
Total Credits: 138-131				

*1 Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)

2. The Education Department offers an interim trip that meets the U requirement - EDU 236UZ or EDU 204UZ. See Education Abroad Options.

This program assumes a student will use PHY292/292D, EDU317GZ, and MAT124M to meet the general education Laboratory Science, Comparative Systems, and Math requirements.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit load falls below 15 credits/semester. (Interim credits may be split between fall and spring for state grant purposes only.)