

Degree Requirements	Details			
Credit Hours	120 credit hours For example, students starting a 120 credit hour program in Fall 2016 must complete a minimum of 15 credit hours per semester/30 credit hours per academic year to earn a Bachelor's Degree on time in 4 years and graduate by May 2020.			
Grade Point Average (GPA)	2.0 GPA			
Residency Rule	Complete at least 32 hours at the 30000 or higher course level at Purdue University Northwest			
Experiential Learning (E X L)	2 courses approved with the E X L attribute. E X L courses are noted by (e) next to the course title.			
General Education Core	Purdue University Northwest requires a minimum of 30 credit hours in the following General Education competencies: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">English Composition (6 credits); Speech Communication (3 credits); Quantitative Reasoning (3 credits); Natural Science (3 credits);</td> <td style="width: 33%;">Technology (3 credit hours); Humanities (3 credits); Social Science (3 credits); Any General Education (3 credits);</td> <td style="width: 33%;">Freshman Experience Course (1 to 3 credits) For courses less than 3 credits, 1 or 2 credits must be earned from another general education approved course.</td> </tr> </table> <p>Some courses may fulfill more than one requirement. Additional General Education coursework may be required to achieve the minimum 30 credit hours. Only courses approved by University Senate will satisfy Gen Ed Requirements. (See Course Descriptions at http://www.pnw.edu/registration/class-schedule-and-course-descriptions for more information.)</p>	English Composition (6 credits); Speech Communication (3 credits); Quantitative Reasoning (3 credits); Natural Science (3 credits);	Technology (3 credit hours); Humanities (3 credits); Social Science (3 credits); Any General Education (3 credits);	Freshman Experience Course (1 to 3 credits) For courses less than 3 credits, 1 or 2 credits must be earned from another general education approved course.
English Composition (6 credits); Speech Communication (3 credits); Quantitative Reasoning (3 credits); Natural Science (3 credits);	Technology (3 credit hours); Humanities (3 credits); Social Science (3 credits); Any General Education (3 credits);	Freshman Experience Course (1 to 3 credits) For courses less than 3 credits, 1 or 2 credits must be earned from another general education approved course.		

Milestone Courses noted by (m) next to the course title have been identified as being critical to your success in this field of study. Failure to master the subject matter in milestone courses may impact your ability to progress in your degree program. This may entail achieving higher grades than just the minimum noted in this plan of study. Review program requirements with your academic advisor to stay on track for graduation. **E X L courses are noted by (e) next to the course title.**

SEMESTER 1 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
Intro to ECET	ECET 10001	FA	3	Yes				
Digital Fundamentals	ECET 10900	FA	3					
Algebra & Trig for Technology I	MA 14700		3	Yes			MA 15300	MA 11500 or SAT Mathematics 449 or ALEKS Math Placement 030
English Composition I	ENGL 10400	ALL	3	Yes	C-			
Fundamentals of Speech	COM 11400	ALL	3	Yes				

SEMESTER 2 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
DC Circuits and Components	ECET 10201 (m)	SP	3					MA 14700
Digital Circuits Application	ECET 15901	SP	3					ECET 10900
Structured C++ Programming for Electromechanical Systems	ECET 21000	SP	3					
Algebra & Trig for Technology II	MA 14800		3				MA 15400	MA 14700 or MA 15300
Humanities Elective	Any Gen Ed Approved Humanities course	ALL	3	Yes				

SEMESTER 3 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
AC Circuits and Analysis	ECET 15201	FA	3					ECET 10201 and MA 14800
Electronic Component Circuits	ECET 15401	FA	3					Pre-req or Co-req: ECET 15201
Microcontroller Applications	ECET 20901 (m)	FA	3					ECET 15901 and ECET 21000
Technical Report Writing	ENGL 22000		3	Yes				ENGL 10400 or ENGL 10000 or ENGL 10800
Introduction to Sociology	SOC 10000	ALL	3	Yes				

SEMESTER 4 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
Social Science Elective	Any Gen Ed approved Social Science course		3					
Electrical Power & Motors	ECET 21201 (m)	SP	3					(ECET 15401 or ECET 21700 or MCET 21700) and ECET 15201
Applied Calculus I for Technology	MA 16019		4				MA 16300	MA 14800
General Physics	PHYS 22000		4	Yes				MA 14800 or MA 15400
Wellness	Any FM Course		1					

SEMESTER 5 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
Applied Calc. II and Diff. Eqs.	MA 16021		3				MA 16400 or MA 22400	

SEMESTER 5 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
Operating System with Embedded System Design	ECET 45600	FA	3					ECET 20901
Advanced Math Methods in DSP	ECET 38400	FA	3					ECET 15200 and MA 16019
Telecommunication Systems	ECET 30301	FA	3					ECET 15400
Generation and Trans of Electrical Power	ECET 33100	FA	3					ECET 21201
SEMESTER 6 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
Renewable Energy Sources and Modelling	ECET 3xxxx	SP	3					ECET 33100 and Co-req: ECET 31201
Digital Signal Processing	ECET 39200	SP	3					ECET 38400 and ECET 20901
Programmable Logic Controllers	ECET 26200	SP	3					ECET 15201 and ECET 21401
Power Electronic Fluid	ECET 31201	SP	3					ECET 15401 and ECET 21201
Engineering Project Management	IET 30800	FA, SP	3					
SEMESTER 7 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
Senior Design Project Phase 1 (e)	ECET 49000	FA, SP	1					IET 30800 and 3 out of ECET 39200, ECET 30301, ECET 31201, ECET 26200, and ECET 45600
Process Control Instrumentation	ECET 36200	FA	3					ECET 15401
Wireless Communication & Networking	ECET 40400	FA	3					ECET 30300
Object Oriented System Design	ECET 45500	FA	3					ECET 21000
ECET Elective	ECET 40000 level	FA	3			See Note 1		
ECET Elective	ECET 40000 level	FA	3			See Note 1		
SEMESTER 8 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Notes	Also Allowed	Pre/Co-requisite Courses
Senior Design Project Phase II (e)	ECET 49100	FA, SP	2					ECET 49000
Technical Elective	Any Gen Ed approved Technology course		3	Yes				
Humanities or Social Science Elective	Any Gen Ed Approved Humanities or Social Science	ALL	3	Yes				
Science or Math Elective	Any Gen Ed Science or Math / Statistics course	ALL	3	Yes				
Social Science Elective	Any Gen Ed approved Social Science course		3	Yes				
Program Total			120					

Additional Information and Guidelines

Note 1: ECET Elective – Specified by sequence of concentrated courses.

Resources

The 8 semester plan of study is a recommended sequence of classes designed to show how this program can be completed within four years. Visit www.15toFinishIndiana.org for information and resources.

To learn more about this program, go to <http://www.pnw.edu/catalog> and select the appropriate academic department.

For career information, check out "What Can I Do With this Major?" at <http://whatcanidowiththismajor.com/major>.

For Financial Aid eligibility, go to <http://admissions.pnw.edu/financial-aid>. Annual FAFSA filing deadline is March 10. Financial Aid recipients are required to complete 30 credits per calendar year to stay eligible for the standard financial aid award.

Financial Guarantee: If you follow the degree map and find a course unavailable, you may be able to take the course for free in a future semester. Certain exclusions apply.

