

Degree Requirements	Details			
Credit Hours	120 credit hours For example, students starting a 120 credit hour program in Fall 2017 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 2021.			
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	Also Allowed	Pre/Co-requisite Courses
Intro to ECET	ECET 10001	FA	3	Yes			
Digital Fundamentals	ECET 10900	FA	3				
Algebra and Trig for Technology I	MA 14700		3	Yes		MA 15300	MA 11500 or ALEKS Math Placement 45
English Composition I	ENGL 10400	ALL	3	Yes	C-	ENGL10000	
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	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 and Trig for Technology II	MA 14800		3			MA 15400	MA 14700 or MA 15300 or ALEKS Math Placement 60
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	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	Also Allowed	Pre/Co-requisite Courses
Programmable Logic Controllers	ECET 26200	SP	3				ECET 15201
Electrical Power and Motors	ECET 21201 (m)	SP	3				ECET 15201
Applied Calculus I for Technology	MA 16019		4			MA 16300	MA 14800 or MA 15400 or ALEKS Math Placement 75
General Physics	PHYS 22000		4	Yes			MA 14800 or MA 15400
Wellness	Any FM Course / Open Elective		1			See Note 3	

SEMESTER 5 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Also Allowed	Pre/Co-requisite Courses
Applied Calc. II and Diff. Equations	MA 16021		3			MA 16400 or MA 22400	MA16019

SEMESTER 5 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	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 15201 and MA 16019
Telecommunication Systems	ECET 30301	FA	3				ECET 15401
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	Also Allowed	Pre/Co-requisite Courses
Renewable Energy Sources and Modelling	ECET 37301	SP	3				ECET 33100 and Pre/Co ECET31201
Digital Signal Processing	ECET 39200	SP	3				ECET 38400 and ECET 20901
Wireless Communication and Networking	ECET 40400	SP	3				ECET 30301
Power Electronics	ECET 31201	SP	3				ECET21201 and ECET15401
Engineering Project Management	IET 30800	FA, SP	3				Junior or Senior standing
SEMESTER 7 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	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
Humanities or Social Science Elective		ALL	3	Yes		See Note 1	
Humanities or Social Science Elective			3			See Note 1	
Science or Math Elective	Science or Math / Statistics course	ALL	3	Yes		See Note 1	
ECET Elective	ECET 40000 Level	FA	3			See Note 4	
SEMESTER 8 - Program Requirements (Course Title)	Subject Code/ Course Number	Semester Offered	Credit Hours	Gen Ed	Min Grade	Also Allowed	Pre/Co-requisite Courses
Senior Design Project Phase II (e)	ECET 49100	FA, SP	2				ECET 49000
Object Oriented System Design	ECET 45500	FA	3				ECET 21000
Technical Elective			3			See Note 5	
ECET Elective	ECET 40000	FA	3			See Note 2	
Humanities or Social Science Elective or Free Elective			3			See Note 1	
Program Total			120				

Additional Information and Guidelines

Note 1: Additional General Education Courses - Science or Math elective (3 credit hours) any Natural Science or Mathematics / Statistics general education approved course OR Humanities or Social Science elective (3 credit hours) any Humanities or Social Science general education approved course.

Note 2: ECET Elective – any ECET course except those already required in the plan of study.

Note 3: Any FM Course Sufficient / Free Elective (For transfer students)

Note 4: Select from any General Ed Approved Technology

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.

