

Curriculum Revision Form

Effective Date: FALL 2026

Submission Date:

Department:

College of:

Contact Person:

Minor Required?

Major/Minor/Emphasis/Certification Name:

If selection is "Deletion" complete questions 2, 3, & 4, then complete signatures.

Revision to Curriculum – REQUIRES ACADEMIC PLANNING EXCEL ATTACHED.

Used to change program name and/or curriculum, effective the upcoming academic catalog.

Removes Major/Minor/Emphasis/Certificate from upcoming catalog.

1. Describe ALL Changes:

2. Rationale for change, including changes to curriculum objectives:

3. Will this change affect any education majors? *If "yes," this requirement will need approval of the Council for Teacher Education before upload to "Approved College Curriculum Legislation".*

Yes

No

4. If this change affects any other department on campus, **please attach all email notifications between departments.**

5. Does the revision meet University catalog definitions for majors, minors, emphases, and certificates as appropriate?

Yes No

6. Will additional resources or costs will be required?

Yes No

If so, what will be needed?

Definition of an Emphasis

Area of Emphasis is a specific subject area that exists within an approved degree program and major. At Pittsburg State University a minimum of 12 credit hours and no more than 24 credit hours are expected for an area of emphasis in a baccalaureate degree program.

Definition of a Minor

Minors at Pittsburg State University may range from 15 to 24 credit hours. When selected to accompany a degree that requires a minor there must be at least nine unique credit hours in the minor that are not found in the student's major in order to meet graduation requirements. In instances where the major requires a minor (not the degree type), academic departments/schools may specify minors that best achieve the learning objective for their students.

Definition of Certificate Program

A certificate program can be undergraduate or graduate in course content and provides a specific body of knowledge for personal or career development or professional continuing education. Certificates may be taken while also pursuing a degree or independent from any other studies at Pittsburg State University. It is recommended that if the student is only pursuing a certificate and not in conjunction with a degree and wishes to apply for federal financial assistance that they visit with personnel in the Student Financial Assistance office regarding the eligibility for aid for the certificate of interest. At Pittsburg State University a certificate can range from 12 credit hours to 24 credit hours.

Authorization Sign-Off Sheet

Checklist: Check once verified.

- | | |
|--------------------------|--------------------------------------|
| <input type="checkbox"/> | Program guide from current catalog. |
| <input type="checkbox"/> | Academic Planning Excel attached. |
| <input type="checkbox"/> | 120 Credit hours met. |
| <input type="checkbox"/> | Course Id's match Course names. |
| <input type="checkbox"/> | Course hours are correct. |
| <input type="checkbox"/> | Listed courses are currently active. |
| <input type="checkbox"/> | Needed Documentation attached. |

-Approved: Department Chair/Director
Date: 2/5/2026 Signature: *Khamia Siam*

-Approved: College Curriculum Committee
Date: 3/3/26 Signature: *Christopher Chillo*

-Approved: Dean of College
Date: 3/3/26 Signature: *Christopher Chillo*

-Approved: Council for Teacher Education (if applicable)
Date: _____ Signature: _____

-Approved: University Undergraduate Curriculum Committee
Date: _____ Signature: _____

-Approved: Faculty Senate
Date: _____ Signature, Recorder Faculty Senate: _____

Following final College Curriculum Committee approval, please apply the appropriate signatures, and send them to your College Administrator.

Originating Department: After completing this form, please upload it to the SharePoint, within the appropriate College folder, "Preliminary Legislation", to allow for review and questions. Any modifications should be saved as "original file name.v2.pdf" and uploaded as well.

Polymer Chemistry Emphasis

Degree: Bachelor of Science

Major: Chemistry

Emphasis: Polymer Chemistry

A minor is not required.

General Education Requirements

General Education requirements consist of 34-35 credit hours of course work.

Required Math Gateway Course, seek advisement.

MATH-150 Calculus I

Core Requirements

__ CHEM-215 General Chemistry I (3 hours)
and __ CHEM-216 General Chemistry I Laboratory (2 hours)
__ CHEM-225 General Chemistry II (3 hours)
and __ CHEM-226 General Chemistry II Laboratory (2 hours)
__ CHEM-325 Organic Chemistry I (3 hours)
and __ CHEM-326 Organic Chemistry I Laboratory (2 hours)
__ CHEM-335 Organic Chemistry II (3 hours)
and __ CHEM-336 Organic Chemistry II Laboratory (2 hours)
__ MATH-150 Calculus I (5 hours)

Emphasis Area

Chemistry Courses

__ CHEM-423 Descriptive Inorganic Chemistry (3 hours)
__ CHEM-445 Analytical Chemistry (3 hours)
and __ CHEM-446 Analytical Chemistry Laboratory (2 hours)
__ CHEM-593 Physical Chemistry I (3 hours)
and __ CHEM-594 Physical Chemistry I Laboratory (2 hours)
__ CHEM-601 Chemistry Colloquium (0-1 hour)
Note: One hour CHEM 601 Chemistry Colloquium is required.
__ CHEM-611 Senior Review and Assessment (1 hour)
__ CHEM-625 Polymer Synthesis and Characterizations (3 hours)
and __ CHEM-626 Polymer Synthesis and Characterizations
Laboratory (2 hours)
__ CHEM-680 Physical Properties of Polymers (3 hours)

Select 3 hours from:

__ CHEM-640 Polyurethanes and Their Applications (3 hours)
__ CHEM-650 Conducting Polymers and Their Applications (3 hours)
__ CHEM-683 Biopolymers (3 hours)
__ CHEM-687 Polymers in Nanotechnology (3 hours)

Other Requirements

__ PHYS-104 Engineering Physics I (4 hours)
or __ PHYS-100 College Physics I (4 hours)
and __ PHYS-130 Elementary Physics Laboratory I (1 hour)
__ PHYS-105 Engineering Physics II (4 hours)
or __ PHYS-101 College Physics II (4 hours)
and __ PHYS-131 Elementary Physics Laboratory II (1 hour)

Degree requires a minimum of 120 credit hours. Student should seek advisement to identify appropriate electives or minor to achieve this minimum.

Revised: 08/28/2025

BS Chemistry
Polymer Emphasis

PSU Faculty Senate 24-25			
Make sure to attach the program guide from current catalog! (For Revised Curriculum)			
https://www.pittstate.edu/registrar/catalog			
Academic Planning Document for 2025-2026			
Major/Emphasis/Minor/Certificate - Polymer Chemistry Emphasis			
Course Prefix	Course Num.	Course Name	Cr. Hr.
Core Courses -			20
CHEM	215	General Chemistry I	3
CHEM	216	General Chemistry I - Lab	2
CHEM	225	General Chemistry II	3
CHEM	226	General Chemistry II - Lab	2
CHEM	325	Organic Chemistry I	3
CHEM	326	Organic Chemistry I - lab	2
CHEM	335	Organic Chemistry II	3
CHEM	336	Organic Chemistry II - lab	2
MATH	150	Calculus (5 hrs)	
Support Courses -			16
PHYS	104	Engineering Physics I	4
or PHYS	100	College Physics I	
and PHYS	130	Elementary Physics Laboratory I	1
PHYS	105	Engineering Physics II	4
or PHYS	101	College Physics II	
and PHYS	131	Elementary Physics Laboratory II	1
Choose 6 hours from the following			6
CHEM	593	Physical Chemistry I (3 hrs)	
CHEM	594	Physical Chemistry I Lab (2 hrs)	
CHEM	635	Polymer Gels (3 hrs)	
CHEM	633	Fibers (3 hrs)	
PET	371/370	Thermoplastic Resins (4) and lab	
or PET	375/374	Thermoset Resins (4) and lab	
Emphasis Courses -			27
CHEM	360	Intro to Polymer Science	3
CHEM	423	Descriptive Inorganic Chemistry	3
CHEM	445	Analytical Chemistry	3
CHEM	446	Analytical Chemistry Laboratory	2
CHEM	601	Colloquium	1
CHEM	611	Senior Review and Assessment	1
CHEM	625	Polymer Synthesis and Characterizations	3
CHEM	626	Polymer Synthesis and Characterizations Lab	2
CHEM	630	Polymerization and Polymer Kinetics	3
CHEM	650	Conducting Polymers and Their Applications	3
CHEM	680	Physical Properties of Polymers	3

BS Chemistry
Polymer Emphasis

		Elective Courses -	22
		Other electives - 22 hours	
		Total Credit Hours -	85
		General Education, 34-35 hours -	35
		Total Credit Hours:	120
Be sure all information is correct and courses are active before submitting.			
Curriculum Revisions REQUIRE a program guide from the current catalog, 24/25.			
Your legislation will be returned if either is found.			