

USING THIS BULLETIN

Introduction

The Graduate Bulletin is Penn State's comprehensive source for graduate academic information and program requirements.

New Features

Program Page Layout

- Consistent layout of graduate major degree program information organized within the following tabs:
 - Overview (including the Program Code and Campus)
 - Admission Requirements
 - Degree Requirements
 - Dual-Titles (if any)
 - Integrated Undergrad-Grad Program (if any)
 - Joint Degrees (if any)
 - Student Aid
 - Courses
 - Learning Outcomes
 - Contact

Please note that the University may make changes to policies, procedures, educational offerings, and requirements.

Changes Page

- Real-time amendments to information in the Bulletin will be tracked on the Changes page.
- The Bulletin is updated every semester. The Bulletin Archive (<http://undergraduate.bulletins.psu.edu/undergraduate/archive/>) contains previous versions of graduate program information.

Course Bubble

When a course link is clicked, a course bubble will appear with important course information including, but not limited to:

- course title, description, and credits;
- prerequisites and recommended preparation;
- if the course is repeatable;
- if the course is cross-listed.

Nondiscrimination Statement

The University is committed to equal access to programs, facilities, admission and employment for all persons. It is the policy of the University to maintain an environment free of harassment and free of discrimination against any person because of age, race, color, ancestry, national origin, religion, creed, service in the uniformed services (as defined in state and federal law), veteran status, sex, sexual orientation, marital or family status, pregnancy, pregnancy-related conditions, physical or mental disability, gender, perceived gender, gender identity, genetic information or political ideas. Discriminatory conduct and harassment, as well as sexual misconduct and relationship violence, violates the dignity of individuals, impedes the realization of the University's educational mission, and will not be tolerated. Direct all inquiries regarding the nondiscrimination policy to the Affirmative Action Office, The Pennsylvania State University, 328 Boucke Building, University Park, PA 16802-5901, Email: aao@psu.edu, Tel (814) 863-0471.

Academic Authority

The Graduate Council has responsibility for, and authority over, all academic information contained in the Graduate Bulletin.

Each step of the educational process, from admission through graduation, requires continual review and approval by University officials. The University, therefore, reserves the right to change the requirements and regulations contained in this Bulletin and to determine whether a student has satisfactorily met its requirements for admission or graduation, and to reject any applicant for any reason the University determines to be material to the applicant's qualifications to pursue higher education.

MORE INFORMATION ABOUT ACADEMIC AUTHORITY (<http://gradschool.psu.edu/gradcouncil/>)

Definitions and Abbreviations

Described below are definitions related to graduate major degree programs:

Graduate / Postbaccalaureate Certificate Program

A graduate or postbaccalaureate credit certificate program is a group of courses that focuses upon an area of specialized knowledge or information and is developed, supervised, and evaluated by the faculty members of the academic unit offering the program. Postbaccalaureate credit certificate programs reflect emerging academic areas, and may supplement or enhance existing degree programs. Postbaccalaureate certificates and graduate certificates differ in the number of graduate credits required; see the Postbaccalaureate Credit Certificate Programs policy (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/postbaccalaureate-credit-certificate-programs/>) for more details.

Graduate Dual-Title Degree Program

A dual-title program is a fully integrated program of study that integrates course work and research in the graduate major and dual-title fields early in the student's program. Dual-title programs are adopted by existing graduate major programs; after entering those graduate major programs, students can apply to the dual-title and earn a degree in both their graduate major and the dual-title field. See the Dual-Title Graduate Degree Program policy (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/dual-title-graduate-degree-programs/>) for more details.

Graduate Joint Degree Program

A joint degree program allows students to pursue work simultaneously towards an existing, specific graduate degree and a professional degree (J.D. or M.D.) offered at Penn State. Joint degree programs enhance students' educational and research opportunities within the graduate and professional programs, provide students with valuable complementary training for a variety of career opportunities, and enable students to complete both degrees in less time than it would take to complete them separately. See the Joint Degree Programs policy (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/joint-degree-programs/>) for more details.

Graduate Minor Program

A graduate minor may be taken in any of the approved graduate major degree programs. In addition, there are stand-alone graduate minors which are unaffiliated with a graduate major. Graduate minors are available for both master's and doctoral degrees; see the following Graduate Minors policies for more details: Minor - Research Doctorate

(<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/minor-research-doctorate/>), Minor - Professional Doctoral Degrees (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/doctoral-minor-professional-doctorate/>), Minor - Research Master's Degrees (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/minor-research-masters/>), Minor - Professional Master's Degrees (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/minor-professional-masters/>).

Integrated Undergraduate-Graduate (IUG) Degree Program

An Integrated Undergraduate-Graduate (IUG) degree program combines a Penn State baccalaureate degree with a master's degree as a continuous program of study. An IUG program allows qualifying students to:

- create a cohesive plan for baccalaureate and master's degree studies, with advising informed by requirements for both degree programs;
- complete the combined degree program in less time than it would take to complete each program separately;
- become familiar with the expectations of graduate studies in their programs;
- access the resources of the Graduate School; and
- learn from current graduate students who share academic interests.

See the Integrated Undergraduate-Graduate (IUG) Degree Programs policy (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/integrated-undergraduate-graduate-degree-programs/>) for more details.

Option

An option is a distinct curricular specialization within a graduate major. It is the only formal curricular specialization within a graduate major that is recognized on the transcript and diploma for students in the major. Options are defined by certain minimum requirements related to the distinctiveness and commonality of the course work in the major; see the Degree Program Options policy (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/degree-program-options/>) for more details.

Abbreviations, Acronyms, and Codes

Described below are common codes, abbreviations, acronyms, and other types of academic shorthand used at Penn State, along with a brief explanation of each.

Code	Explanation
A	Special topics (course suffix; indicates different versions of the same course, e.g., CAS 100A, CAS 100B, CAS 100C)
A & A	Arts and Architecture (college abbreviation)
AA	Arts and Architecture (college code)
AAPPM	Academic Administrative Policies and Procedures Manual
AB	Abington (campus code)
AB	Abington (college code)
ACUE	Administrative Council on Undergraduate Education
AG	Agricultural Sciences (college code)
AL	Altoona (campus code)

AL	Altoona (college code)
AP	Advanced Placement Program
APPL	Course requires an application with the School of Music (course characteristic)
APPT	By appointment (class meeting time)
AU	Audit, attended regularly (grade reporting symbol)
AUDN	Course requires an audition (course characteristic)
AUU	Audit, did not attend regularly (grade reporting symbol)
B	Special topics (course suffix; indicates different versions of the same course, e.g., CAS 100A, CAS 100B, CAS 100C)
BA	Business, Smeal College of (college code)
BC	Behrend (college code)
BK	Berks (campus code)
BK	Berks (college code)
BR	Beaver (campus code)
BW	Brandywine (campus code)
C	Special topics (course suffix; indicates different versions of the same course, e.g., CAS 100A, CAS 100B, CAS 100C)
CA	Capital (college code)
CALC	Course requires a calculator (course characteristic)
CAMP	College Assistance Migrant Program
CAT	Online catalog, University Libraries
CC	Commonwealth Campuses
CCP	College Contact Person
CCRR	College Contact and Referral Representative
CCSG	Council of Commonwealth Student Governments
CE	Continuing Education
CGPA	Cumulative grade-point average
CIC	Committee on Institutional Cooperation
CLEP	College-Level Examination Program
CM	Communications (college code)
CNCR	Course is scheduled concurrently with another course (course characteristic)
CNTL	Course is controlled (course characteristic)
COMM	Communications (college abbreviation)
CORD	Course is coordinated with other course(s) (course characteristic)

COST	Course requires an additional fee (course characteristic)
D	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297D, HIST 297E)
DAA	Dean/Director of Academic Affairs
DF	Deferred grade (grade reporting symbol)
DN	Dickinson School of Law (campus code)
DS	DuBois (campus code)
DU	Division of Undergraduate Studies (college code)
D U S	Division of Undergraduate Studies (college abbreviation)
E	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297D, HIST 297E)
ECoS	Eberly College of Science
ED	Education (college code)
EM	Earth and Mineral Sciences (college code)
EM SC	Earth and Mineral Sciences (college abbreviation)
EN	Engineering (college code)
ENGR	Engineering (college abbreviation)
EOP	Educational Opportunity Program
EPR	Early Progress Report
EPS	Educational Planning Survey
ER	Behrend (campus code)
ESL	English as a Second Language
EVEX	Course has evening exams (course characteristic)
F	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297F, HIST 297G)
FE	Fayette (campus code)
FINL	Course has a final exam (course characteristic)
FL	Failure under pass/fail option (grade reporting symbol)
FYS	First-Year Seminar
G	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297F, HIST 297G)
GA	Arts (General Education code)
GA	Greater Allegheny (campus code)
GH	Humanities (General Education code)
GHW	Health and Wellness (General Education code)
GN	Graduate non-degree (college code)

GN	Natural Sciences (General Education code)
GPA	Grade-point average
GQ	Quantification (General Education code)
GR	Graduate (level code)
GR ND	Graduate non-degree (college code)
GS	Social and Behavioral Sciences (General Education code)
GV	Great Valley (campus code)
GV	Great Valley (college code)
GWS	Writing/Speaking (General Education code)
H	Honors course or section (course suffix)
HB	Harrisburg (campus code)
H H D	Health and Human Development (college abbreviation)
HH	Health and Human Development (college code)
HN	Hazleton (campus code)
HY	Hershey Medical Center (campus code)
I	Incomplete (grade reporting symbol)
I	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297I, HIST 297K)
I COL	Intercollege programs (college abbreviation)
IB	International Baccalaureate Program
IC	Intercollege programs (college code)
IL	International Cultures (General Education code)
INCP	Incomplete (grade reporting symbol)
INTG	Course is integrated with other courses (course characteristic)
IS	Information Sciences and Technology (college code)
IST	Information Sciences and Technology (college abbreviation)
ITS	Information Technology Services
IUG	Integrated undergraduate/graduate degree programs
IVID	Course uses interactive video (course characteristic)
J	Individualized instruction (course suffix)
K	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297I, HIST 297K)

L	Lecture section (course suffix)
LA	Liberal Arts (college code)
LEAP	Learning Edge Academic Program
LIAB	Course has liability attendance policy (course characteristic)
LV	Lehigh Valley (campus code)
LW	Law (level code)
M	Writing Across the Curriculum and Honors (course suffix)
MA	Mont Alto (campus code)
MAC	Morgan Academic Center (for Student-Athletes)
MD	Medical (level code)
MD	Medicine (college code)
MED	Medicine (college abbreviation)
MEP	Multicultural Engineering Program
MRC	Multicultural Resource Center
MS	Military Science (ROTC) (college code)
NACADA	National Academic Advising Association
NC	Non-credit (level code)
NDEGR/C/H	Nondegree Regular/Conditional/High School (Classification of Undergraduate Students)
NG	No grade (grade reporting symbol)
NK	New Kensington (campus code)
NR	Nursing (college code)
NSO	New Student Orientation
OCLC	Course meets at an off-campus location (course characteristic)
ODS	Office for Disability Services
OSA	Office of Student Aid
OUR	Office of the University Registrar
P	Pass (noncredit course) (grade reporting symbol)
P	Practicum (or laboratory) section (course suffix)
PC	Penn College (Pennsylvania College of Technology; campus code)
PREQ	Course has prerequisites (course characteristic)
PS	Pass (pass/fail option) (grade reporting symbol)
PSU	Pennsylvania State University
R	Recitation section (course suffix)
R	Research (grade reporting symbol)
RAP	Recommended Academic Plan
RI	Resident Instruction
ROTC	Reserve Officers' Training Corps
S	First-Year Seminar (course suffix)
SA	Satisfactory achievement (grade reporting symbol)

SATL	Course is offered at multiple locations via satellite uplink (course characteristic)
SC	Science, Eberly College of (college code)
SCIEN	Science, Eberly College of (college abbreviation)
SEGM	Course is segmented (course characteristic)
SGPA	Semester grade-point average
SH	Shenango (campus code)
SI	Supplemental Instruction
SITE	Schreyer Institute for Teaching Excellence
SL	Schuylkill (campus code)
SLO	Special Living Options
SOTP	Student Orientation and Transition Programs
SRTE	Student Ratings of Teacher Effectiveness
SSSP	Student Support Services Program
T	First-Year Seminar and Honors (course suffix)
TMDT	Course has additional meeting times/dates (course characteristic)
U	United States Cultures/International Cultures and Honors (course suffix)
UAO	Undergraduate Admissions Office
UC	University College (college code)
UE	Undergraduate Education
UFO	University Fellowships Office
UG	Undergraduate (level code)
UG ND	Undergraduate non-degree (college code)
UN	Undergraduate nondegree (college code)
UN	Unsatisfactory achievement (grade reporting symbol)
UP	University Park (campus code)
UPUA	University Park Undergraduate Association
US	United States Cultures (General Education code)
W	Official withdrawal (grade reporting symbol)
W	Writing Across the Curriculum (course suffix)
WB	Wilkes-Barre (campus code)
WC	World Campus
WEB	Web course; offered entirely through the Internet (course characteristic)
WEP	Women in Engineering Program
WF	Withdrew failing (grade reporting symbol)

WISE	Women in the Sciences and Engineering
WN	Withdrew no grade (grade reporting symbol)
WP	Withdrew passing (grade reporting symbol)
WS	Worthington Scranton (campus code)
X	Writing Across the Curriculum and First-Year Seminar (course suffix)
XC	State College Continuing Education (campus code)
XF	Failure, academic dishonesty (course grade)
XS	Foreign studies program (campus code)
Y	Writing Across the Curriculum course and United States Cultures/ International Cultures (course suffix)
YK	York (campus code)

Common abbreviations for course attributes and suffixes can be found in the University Course Descriptions (<https://bulletins.psu.edu/university-course-descriptions/>) section.

Changes to the Graduate Bulletin

Changes to the Graduate Bulletin will be tracked in real-time and listed below. At the end of every semester, these updates will be incorporated into the Bulletin.

Program Changes Effective Summer 2024

Clinical Psychology

Change name from Applied Clinical Psychology and change degree requirements.

Computer Science

Change requirements for IUG and remove tracks.

Education, Development, and Community Engagement

Adopt dual-title in Transdisciplinary Research on Environment and Society.

Life Long Learning and Adult Education

Discontinue extension of the Master of Education (M.Ed.) to the Harrisburg campus.

Soil Science

Adopt dual-title in Transdisciplinary Research on Environment and Society.

Certificate Changes Effective Summer 2024

Ancient Languages PostBaccalaureate Credit Certificate Program
Certificate renewed.

Business Process Integration Graduate Credit Certificate Program
New certificate offering.

Cyber Threat Analytics and Prevention Graduate Credit Certificate Program

Change certificate requirements and renew.

Institutional Research Graduate Credit Certificate Program
Certificate renewed.

IT Analytics Graduate Credit Certificate Program
New certificate offering.

Principalship Graduate Credit Certificate Program
Certificate renewed.

Teacher Leadership Graduate Credit Certificate Program
Certificate renewed.

Program Changes Effective Fall 2024

Accounting (Smeal)
Change degree requirements.

Ancient Mediterranean Languages
New graduate dual-title program.

Ancient Mediterranean Studies
New graduate degree program offering the Master of Arts (M.A.) degree in residence at University Park.

Criminology
Change degree requirements.

Data Analytics
Change degree title from Master of Professional Studies (M.P.S.) to Master of Data Analytics (M.D.A.) and change degree requirements.

Education Policy and Leadership
New graduate degree program offering the Doctor of Philosophy (Ph.D.) degree in residence at University Park.

Social Work
New graduate degree program offering the Master of Social Work (M.S.W.) degree online via World Campus.

Supply Chain Management
Extend residential offering to University Park.

Certificate Changes Effective Fall 2024 Program Changes Effective Spring 2025 Certificate Changes Effective Spring 2025 FAQs

- Where can I find the Undergraduate Bulletin?
 - The Undergraduate Bulletin is located at <http://bulletins.psu.edu/undergraduate> (<http://bulletins.psu.edu/undergraduate/>).
- Where can I find a list of courses and course descriptions?
 - You may find courses and descriptions several different ways within the Bulletin. You may navigate to the full listing of courses and descriptions from the Courses (<https://bulletins.psu.edu/university-course-descriptions/>) link in the top navigation menu. You may also scroll over any course number within the Bulletin to see the course description in a course bubble. Search for specific courses through the search option on the homepage or in the search functions throughout the Bulletin.
- Where can I find past Bulletins?

- Past Bulletins can be found on the Archive page (<https://bulletins.psu.edu/graduate/archive/>), which can be accessed from any page in the Bulletin's top navigation menu.
4. When will the Graduate Bulletin be updated?
 - The Bulletin will be updated at the beginning of each semester (fall, spring, and summer). Changes that occur between updates are identified on the Changes page.
 5. Why are there are some courses listed in the Bulletin that I can't schedule?
 - The Bulletin Course Description section displays all courses that are currently active at Penn State. Not all of these courses are taught every academic semester or year. To view courses that are available for enrollment by semester, please view the LionPATH Class Search (https://www.lionpath.psu.edu/psc/CSPRD/EMPLOYEE/HRMS/c/SA_LEARNER_SERVICES.CLASS_SEARCH.GBL?Page=SSR_CLSRCH_ENTRY&Action=U).

Have a question we didn't include? Please let us know by emailing bulletins@psu.edu.