

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.

Statement of Nondiscrimination

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: aaopsu.edu; Tel 814-863-0471.

Penn State encourages qualified persons with disabilities to participate in its programs and activities. If you anticipate needing any type of

accommodation or have questions about the physical access provided, please contact the Student Disability Resources, 814-863-1807, in advance of your participation or visit.

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
CRRR	College Contact and Referral Representative
CSSG	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)	GH	Humanities (General Education code)
CORD	Course is coordinated with other course(s) (course characteristic)	GHW	Health and Wellness (General Education code)
COST	Course requires an additional fee (course characteristic)	GN	Graduate non-degree (college code)
D	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297D, HIST 297E)	GN	Natural Sciences (General Education code)
DAA	Dean/Director of Academic Affairs	GPA	Grade-point average
DF	Deferred grade (grade reporting symbol)	GQ	Quantification (General Education code)
DN	Dickinson School of Law (campus code)	GR	Graduate (level code)
DS	DuBois (campus code)	GR ND	Graduate non-degree (college code)
DU	Division of Undergraduate Studies (college code)	GS	Social and Behavioral Sciences (General Education code)
D U S	Division of Undergraduate Studies (college abbreviation)	GV	Great Valley (campus code)
E	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297D, HIST 297E)	GV	Great Valley (college code)
ECoS	Eberly College of Science	GWS	Writing/Speaking (General Education code)
ED	Education (college code)	H	Honors course or section (course suffix)
EM	Earth and Mineral Sciences (college code)	HB	Harrisburg (campus code)
EM SC	Earth and Mineral Sciences (college abbreviation)	H H D	Health and Human Development (college abbreviation)
EN	Engineering (college code)	HH	Health and Human Development (college code)
ENGR	Engineering (college abbreviation)	HN	Hazleton (campus code)
EOP	Educational Opportunity Program	HY	Hershey Medical Center (campus code)
EPR	Early Progress Report	I	Incomplete (grade reporting symbol)
EPS	Educational Planning Survey	I	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297I, HIST 297K)
ER	Behrend (campus code)	I COL	Intercollege programs (college abbreviation)
ESL	English as a Second Language	IB	International Baccalaureate Program
EVEX	Course has evening exams (course characteristic)	IC	Intercollege programs (college code)
F	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297F, HIST 297G)	IL	International Cultures (General Education code)
FE	Fayette (campus code)	INCP	Incomplete (grade reporting symbol)
FINL	Course has a final exam (course characteristic)	INTG	Course is integrated with other courses (course characteristic)
FL	Failure under pass/fail option (grade reporting symbol)	IS	Information Sciences and Technology (college code)
FYS	First-Year Seminar	IST	Information Sciences and Technology (college abbreviation)
G	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297F, HIST 297G)	ITS	Information Technology Services
GA	Arts (General Education code)	IUG	Integrated undergraduate/graduate degree programs
GA	Greater Allegheny (campus code)	IVID	Course uses interactive video (course characteristic)

J	Individualized instruction (course suffix)	PSU	Pennsylvania State University
K	Special topics (course suffix; indicates different versions of the same course, e.g., HIST 297I, HIST 297K)	R	Recitation section (course suffix)
L	Lecture section (course suffix)	R	Research (grade reporting symbol)
LA	Liberal Arts (college code)	RAP	Recommended Academic Plan
LEAP	Learning Edge Academic Program	RI	Resident Instruction
LIAB	Course has liability attendance policy (course characteristic)	ROTC	Reserve Officers' Training Corps
LV	Lehigh Valley (campus code)	S	First-Year Seminar (course suffix)
LW	Law (level code)	SA	Satisfactory achievement (grade reporting symbol)
M	Writing Across the Curriculum and Honors (course suffix)	SATL	Course is offered at multiple locations via satellite uplink (course characteristic)
MA	Mont Alto (campus code)	SC	Science, Eberly College of (college code)
MAC	Morgan Academic Center (for Student-Athletes)	SCIEN	Science, Eberly College of (college abbreviation)
MD	Medical (level code)	SEGM	Course is segmented (course characteristic)
MD	Medicine (college code)	SGPA	Semester grade-point average
MED	Medicine (college abbreviation)	SH	Shenango (campus code)
MEP	Multicultural Engineering Program	SI	Supplemental Instruction
MRC	Multicultural Resource Center	SITE	Schreyer Institute for Teaching Excellence
MS	Military Science (ROTC) (college code)	SL	Schuylkill (campus code)
NACADA	National Academic Advising Association	SLO	Special Living Options
NC	Non-credit (level code)	SOTP	Student Orientation and Transition Programs
NDEGR/C/H	Nondegree Regular/Conditional/High School (Classification of Undergraduate Students)	SRTE	Student Ratings of Teacher Effectiveness
NG	No grade (grade reporting symbol)	SSSP	Student Support Services Program
NK	New Kensington (campus code)	T	First-Year Seminar and Honors (course suffix)
NR	Nursing (college code)	TMDT	Course has additional meeting times/dates (course characteristic)
NSO	New Student Orientation	U	United States Cultures/International Cultures and Honors (course suffix)
OCLC	Course meets at an off-campus location (course characteristic)	UAO	Undergraduate Admissions Office
ODS	Office for Disability Services	UC	University College (college code)
OSA	Office of Student Aid	UE	Undergraduate Education
OUR	Office of the University Registrar	UFO	University Fellowships Office
P	Pass (noncredit course) (grade reporting symbol)	UG	Undergraduate (level code)
P	Practicum (or laboratory) section (course suffix)	UG ND	Undergraduate non-degree (college code)
PC	Penn College (Pennsylvania College of Technology; campus code)	UN	Undergraduate non-degree or degree-seeking provisional (college code)
PR	Semester classification (degree-seeking provisional)	UN	Unsatisfactory achievement (grade reporting symbol)
PREQ	Course has prerequisites (course characteristic)	UP	University Park (campus code)
PROV	Provisional (degree-seeking student (Classification of Undergraduate Students))	UPUA	University Park Undergraduate Association
PS	Pass (pass/fail option) (grade reporting symbol)	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 (<http://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 Spring 2020

Corporate Innovation and Entrepreneurship

Change degree title to Master of Management (M.Mgt.).

Certificate Changes Effective Spring 2020

Educational Technology Integration

Renew for an additional 5 years.

Management Consulting

Add new graduate certificate.

FAQs

- Where can I find the Undergraduate Bulletin?
 - The Undergraduate Bulletin is located at <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 (<http://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.

3. Where can I find past Bulletins?

- Past Bulletins can be found on the Archive page (<http://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.