

# ANTHROPOLOGY

<b>Graduate Program Head</b>	Timothy Ryan
<b>Program Code</b>	ANTH
<b>Campus(es)</b>	University Park (Ph.D., M.A.)
<b>Degrees Conferred</b>	Doctor of Philosophy (Ph.D.) Master of Arts (M.A.) Dual-Title Ph.D. in Anthropology and Bioethics Dual-Title Ph.D. in Anthropology and Climate Science Dual-Title M.A. and Ph.D. in Anthropology and Demography Dual-Title Ph.D. in Anthropology and Microbiome Sciences Dual-Title M.A. and Ph.D. in Anthropology and Transdisciplinary Research on Environment and Society Integrated B.S. in Anthropological Science and B.A. in Classics and Ancient Mediterranean Studies and M.A. in Anthropology Integrated B.A. in Anthropology and B.A. in Classics and Ancient Mediterranean Studies and M.A. in Anthropology Joint M.D. / Ph.D. with the College of Medicine
<b>The Graduate Faculty</b>	View ( <a href="https://secure.gradsch.psu.edu/gpms/?searchType=fac&amp;prog=ANTH">https://secure.gradsch.psu.edu/gpms/?searchType=fac&amp;prog=ANTH</a> )

The Department of Anthropology at Penn State integrates social, ecological, and evolutionary approaches to understand variability in the human condition through time and across space. We offer an integrated program of graduate study at both the Ph.D. and M.A. level focusing on specialized training in:

- human and behavioral ecology
- cultural anthropology
- anthropological demography
- archaeology
- archaeometry
- genetics
- human evolution
- the behavioral and evolutionary biology of human and non-human primates

Students also have the option of enrolling in dual-title Ph.D. graduate programs in Climate Science, Demography, Transdisciplinary Research on Environment and Society (TREES), and Bioethics, and dual-title M.A. programs in Demography and TREES. The Department also offers two Integrated Undergraduate/Graduate (IUG) programs (B.A./M.A. and B.S./B.A./M.A.): with the Department of Classics (CAMS). In addition, the Department of Anthropology also offers a joint M.D./Ph.D. degree program with the College of Medicine.

## Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (<https://gradschool.psu.edu/graduate-admissions/how-to-apply/>). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (<https://gradschool.psu.edu/graduate-education-policies/>).

Entrance to the Anthropology graduate program occurs in the fall semester. Applications must be received by the department no later than December 1 for fall admission. The Department of Anthropology requires Ph.D. program applicants to submit:

- official transcripts from all post-secondary institutions attended (<http://www.gradschool.psu.edu/prospective-students/how-to-apply/new-applicants/requirements-for-graduate-admission/>)
- a statement of purpose
- a CV
- at least three letters of recommendation from persons familiar with the applicant's academic performance
- Graduate Record Examinations (GRE) scores (verbal, quantitative, and analytical) are OPTIONAL

A Master's degree is not required to apply to the Ph.D. Program. The department does not admit students to the terminal Master's degree, but does allow students to apply for a Master's degree through admission to the IUG (Integrated Undergraduate and Graduate) program and Ph.D. degree program.

## Degree Requirements

### Master of Arts (M.A.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (<https://gradschool.psu.edu/graduate-education-policies/>)

A minimum of 30 credits at the 400, 500, 600, or 800 level is required, with least 18 credits at the 500 and 600 level, combined. 600 level credits are taken by students completing a thesis, students completing a scholarly paper must have at least 18 credits at the 500 level. All Master's students are required to take the following:

Code	Title	Credits
<b>Required Courses</b>		
<i>Core Theory Seminars</i>		
ANTH 560	Ecology, Evolution, and Human Behavior	3
ANTH 571	Principles of Human Evolutionary Biology	3
ANTH 588	Method and Theory in Archaeology	3
<i>Literature Review Seminar</i>		
ANTH 541	Current Literature in Integrative Anthropology	2
<b>Culminating Experience</b>		
ANTH 600 or ANTH 596	Thesis Research Individual Studies	

Students can choose to complete a thesis or a scholarly paper as the culminating experience for the degree. Students who choose to complete a thesis must take a minimum of 6 thesis research credits (ANTH 600). The thesis must be accepted by the advisers and/or committee members, the head of the graduate program, and the Graduate School. Students in

the non-thesis track must complete 18 credits at the 500 level, and must write a satisfactory scholarly paper, while enrolled in ANTH 596.

Additional course work is tailored to the student's research interests after advance consultation with their adviser, and specific courses may be required by the adviser depending on the student's background and research plans.

## Doctor of Philosophy (Ph.D.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (<https://gradschool.psu.edu/graduate-education-policies/>)

The doctoral degree in Anthropology requires a minimum of 30 credits, 27 of which are required coursework and 3 credits of which are electives. All first-year Ph.D. students are required to register for 9-12 credits per semester and complete 15 credits of course work, including the three core theory seminars ( ANTH 560, ANTH 571, ANTH 588) and two research method seminars (ANTH 572, and ANTH 573). The core method and theory courses will serve as the basis for the Ph.D. qualifying exam, which will take place at the end of the first year.

In the fall of the second year, all students in the Ph.D. program should enroll for a total of 9-12 credits per semester, including ANTH 509. ANTH 508, Visualizing Anthropological Data, is required for all Ph.D. students and may be taken at any point in the first two years. Students without suitable preparation in statistics may also be required to take a course at the 400 or 500 level at the adviser's discretion. A student's Ph.D. committee can require additional course work depending on the student's background and research plans.

Code	Title	Credits
<b>Required Courses</b>		
ANTH 508	Visualizing Anthropological Data <sup>1</sup>	3
ANTH 509	Proposal Writing	3
ANTH 541	Current Literature in Integrative Anthropology <sup>2</sup>	6
ANTH 560	Ecology, Evolution, and Human Behavior	3
ANTH 571	Principles of Human Evolutionary Biology	3
ANTH 572	Research Design in Integrative Anthropology	3
ANTH 573	Anthropology Research Practicum	3
ANTH 588	Method and Theory in Archaeology	3

<sup>1</sup> ANTH 508 is required for all Ph.D. students and may be taken at any point in the first two years.

<sup>2</sup> All Ph.D. students are required to enroll in a one-unit literature review seminar (ANTH 541), for one credit each semester during the first six semesters of study.

A student's Ph.D. committee can require reading knowledge and/or demonstrated working knowledge of a foreign language, specialized training in linguistics, or training in computer programming languages, depending on the student's research interests. This will be determined shortly after the committee is formed.

For the Ph.D. degree, students must conduct significant original research that demonstrates the student's mastery of the field. The Ph.D. requirements include successful completion of course work as stipulated by the department and Ph.D. committee, passing the qualifying exam, preparing a dissertation proposal, successfully passing the comprehensive exam/dissertation proposal defense, and writing and defending the subsequent dissertation. The dissertation must be

accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School, and the student must pass a final oral examination (the dissertation defense).

## Dual-Titles

### Dual-Title Ph.D. in Anthropology and Bioethics

Requirements listed here are in addition to requirements listed in GCAC-208 Dual-Title Graduate Degree Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-208-dual-titles/>).

The Bioethics program (<http://bulletins.psu.edu/graduate/programs/majors/bioethics/>) provides anthropology students with an opportunity to develop their knowledge of the social and ethical implications of their research. This combination – solid research experience with an intimate knowledge of the ethical dimensions of that work – is increasingly important in the workplace, and broadens the possibilities of employment beyond traditional anthropology positions.

### Admissions Requirements

Students must apply and be admitted to the graduate program in Anthropology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Bioethics dual-title program. Refer to the Admission Requirements section of the Bioethics Bulletin page (<http://bulletins.psu.edu/graduate/programs/majors/bioethics/>). Doctoral students must be admitted into the dual-title degree program in Bioethics prior to taking the qualifying examination in their primary graduate program.

### Degree Requirements

To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in Anthropology, listed above. In addition, students must complete the degree requirements for the dual-title in Bioethics, listed on the Bioethics Bulletin page (<http://bulletins.psu.edu/graduate/programs/majors/bioethics/>).

The qualifying examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from Anthropology and must include at least one Graduate Faculty member from the Bioethics program. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. There will be a single qualifying examination, containing elements of both Anthropology and Bioethics. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the qualifying examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for Ph.D. committees (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-602-phd-committee-formation/>), the Ph.D. committee of an Anthropology and Bioethics dual-title Ph.D. student must include at least one member of the Bioethics Graduate Faculty. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. If the chair of the Ph.D. committee is not also a member of the Graduate Faculty in Bioethics, the member of the committee representing Bioethics must be appointed as co-chair. The Bioethics representative on the student's Ph.D. committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their Ph.D. committee and reflects their original research and education in Anthropology and Bioethics. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School.

### Dual-Title Ph.D. in Anthropology and Climate Science

Requirements listed here are in addition to requirements listed in GCAC-208 Dual-Title Graduate Degree Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-208-dual-titles/>).

The Climate Science (<https://bulletins.psu.edu/graduate/programs/majors/climate-science/>) program offers enhanced training opportunities for students interested in investigating the role of climate change in human evolution, socio-natural systems, and contemporary societies.

#### Admissions Requirements

Students must apply and be admitted to the graduate program in Anthropology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Climate Science dual-title program. Refer to the Admission Requirements section of the Climate Science Bulletin page (<https://bulletins.psu.edu/graduate/programs/majors/climate-science/>). Doctoral students must be admitted into the dual-title degree program in Climate Science no later than the end of the fourth semester (not counting summer semesters) of entry into the primary Ph.D. program.

#### Degree Requirements

To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in in Anthropology, listed on the Degree Requirements tab. In addition, students must complete the degree requirements for the dual-title in Climate Science, listed on the Climate Science Bulletin page (<https://bulletins.psu.edu/graduate/programs/majors/climate-science/>).

The qualifying examination in Anthropology satisfies the qualifying exam requirement for the dual-title degree program in Climate Science.

In addition to the general Graduate Council requirements for Ph.D. committees (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-602-phd-committee-formation/>), the Ph.D. committee of an Anthropology and Climate Science dual-title Ph.D. student must include at least one member of the Climate Science Graduate Faculty. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. If the chair of the Ph.D. committee is not also a member of the Graduate Faculty in Climate Science, the member of the committee representing Climate Science must be appointed as co-chair. The Climate Science representative on the student's Ph.D. committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their Ph.D. committee and reflects their original research and education in Anthropology and Climate Science. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be

accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School.

### Dual-Title M.A. and Ph.D. in Anthropology and Demography

Requirements listed here are in addition to requirements listed in GCAC-208 Dual-Title Graduate Degree Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-208-dual-titles/>).

The Demography interdisciplinary program (<http://bulletins.psu.edu/graduate/programs/majors/demography/>) is designed to give students in-depth knowledge of the demographic dimensions of anthropological research, including studies of present populations as well as those of the past.

#### Admissions Requirements

Students must apply and be admitted to the graduate program in Anthropology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Demography dual-title program. Refer to the Admission Requirements section of the Demography Bulletin page (<http://bulletins.psu.edu/graduate/programs/majors/demography/>). Doctoral students must be admitted into the dual-title degree program in Demography prior to taking the qualifying examination in their primary graduate program.

#### Degree Requirements

To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in Anthropology, listed on the Degree Requirements tab. In addition, students must complete the degree requirements for the dual-title in Demography, listed on the Demography Bulletin page (<http://bulletins.psu.edu/graduate/programs/majors/demography/>).

The qualifying examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from Anthropology and must include at least one Graduate Faculty member from the Demography program. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. There will be a single qualifying examination, containing elements of both Anthropology and Demography. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the qualifying examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for Ph.D. committees (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-602-phd-committee-formation/>), the Ph.D. committee of an Anthropology and Demography dual-title Ph.D. student must include at least one member of the Demography Graduate Faculty. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. If the chair of the Ph.D. committee is not also a member of the Graduate Faculty in Demography, the member of the committee representing Demography must be appointed as co-chair. The Demography representative on the student's Ph.D. committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their Ph.D. committee and reflects their original research and education

in Anthropology and Demography. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School.

## Dual-Title M.A. and Ph.D. in Anthropology and TRANSDISCIPLINARY RESEARCH ON ENVIRONMENT AND SOCIETY

Requirements listed here are in addition to requirements listed in GCAC-208 Dual-Title Graduate Degree Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-208-dual-titles/>).

The TREES program (<http://bulletins.psu.edu/graduate/programs/majors/human-dimensions-natural-resources-environment/>), which involves four colleges including the College of the Liberal Arts, is oriented toward research that furthers our understanding of the human use of natural resources, a pressing concern for all of us in the twenty-first century. Topics of special concern for anthropologists are the (very) long-term impact of humans on natural settings, and the ways people have adapted to those changes in their surroundings.

### Admissions Requirements

Students must apply and be admitted to the graduate program in Anthropology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the TREES dual-title program. Doctoral students must be admitted into the dual-title degree program in TREES prior to taking the qualifying examination in their primary graduate program. Refer to the Admission Requirements section of the TREES Bulletin page (<http://bulletins.psu.edu/graduate/programs/majors/transdisciplinary-research-environment-society/>).

### Master's Degree Requirements

In addition to the course requirements, 6 credits of Thesis Research (600 or 610 in the student's home graduate degree program) are required if the candidate is writing a thesis. Particular courses may satisfy both the graduate major program requirements and those of the TREES dual-title intercollege program. All courses must be approved by the student's M.S./M.A. advisers and/or committee.

The thesis supervisor and chair of the student's committee shall be a member of the student's major program, and a member of the dual-title program. All members of the committee must hold Graduate Faculty status or secure the same before serving on the committee.

The culminating experience (e.g., thesis or scholarly paper or capstone course) must incorporate a TREES interest together with the primary field of study. All students are also required to successfully complete an oral defense of the M.S./M.A. thesis as part of the master's requirements if required by the participating program.

### Doctoral Degree Requirements

A candidate for the dual-title intercollege TREES Ph.D. must complete, in addition to curricular requirements for the doctoral degree in the student's primary program, a minimum of 15 credits of TREES coursework. The course requirements are the same as those listed for the Master's degrees. All courses, including which courses will satisfy both the graduate major program and dual-title program

requirements, must be approved by the student's M.S./M.SA. advisers and/or committee.

The qualifying examination for Anthropology will satisfy the qualifying exam requirement for the dual-title degree program in TREES. The Ph.D. committee must include at least one Graduate Faculty member from TREES. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. The TREES representative on the Ph.D. committee will participate in constructing and evaluating the comprehensive examination. If the chair of the Ph.D. committee is not also a member of the Graduate Faculty in TREES, the member of the committee representing TREES must be appointed as co-chair. All Ph.D. students will be required to complete, present, and defend a dissertation that incorporates a topic related to both their graduate major program and TREES. Candidates for the dual-title Ph.D. degree in TREES will be required to pass a final oral examination (the dissertation defense) covering their graduate major program field and TREES, with emphasis on the student's area of specialization. To earn the Ph.D. degree, doctoral students must also write a dissertation that is accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School.

## Dual-Title Ph.D. in Anthropology and Microbiome Sciences (MBIOM)

Requirements listed here are in addition to requirements listed in GCAC-208 Dual-Title Graduate Degree Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-208-dual-titles/>).

The dual-title in Anthropology and Microbiome Sciences (MBIOM) is a great recruitment incentive for students interested in how microbial communities contribute to anthropological processes. Students whose research involves high-throughput microbiome data, bioinformatics analysis, and metadata interpretation can have their training and skills formally recognized with the Dual Title Ph.D. in Microbiome Sciences.

### Admissions Requirements

Students must apply and be admitted to the graduate program in Anthropology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the MBIOM dual-title program. Students enroll in the MBIOM program after admission to their major program but ideally before their qualifying exam (the major program's qualifying exam is sufficient for the dual-title program). In the event the student decides to enroll in the dual-title after taking the qualifying exam, enrollment must occur before the end of the fourth semester. To enroll, the student emails the MBIOM Graduate Program Assistant an application form (see <https://plantpath.psu.edu/graduate/dual-title/microbiome/apply>) (<https://plantpath.psu.edu/graduate/dual-title/microbiome/apply/>) and a statement of interest that includes potential research objectives and is signed by their adviser and major program head. The FIC will review the application and notify Graduate School of enrollment approval.

### Degree Requirements

To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in Anthropology, listed above. In addition, students must complete the degree requirements for the dual-title in Microbiome Sciences (see <https://plantpath.psu.edu/graduate/dual-title/microbiome/objectives>) (<https://plantpath.psu.edu/graduate/dual-title/microbiome/objectives/>).



The qualifying examination for Anthropology satisfies the qualifying examination requirement for the dual-title degree program in Microbiome Sciences.

In addition to the general Graduate Council requirements for Ph.D. committees (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-602-phd-committee-formation/>), the Ph.D. committee of an Anthropology and MBIOM dual-title Ph.D. student must include at least one member of the MBIOM Graduate Faculty. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. If the chair of the Ph.D. committee is not also a member of the Graduate Faculty in MBIOM, the member of the committee representing MBIOM must be appointed as co-chair. The MBIOM representative on the student's Ph.D. committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their Ph.D. committee and reflects their original research and education in Anthropology and MBIOM. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School.

## Integrated Undergrad-Grad Programs

### Integrated B.A. degree in Anthropology or B.S. degree in Anthropological Science, B.A. degree in Classics and Ancient Mediterranean Studies (CAMS), and M.A. degree in Anthropology

Requirements listed here are in addition to requirements listed in GCAC-210 Integrated Undergraduate-Graduate (IUG) Degree Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-210-integrated-undergraduate-graduate-degree-programs/>).

The Department of Anthropology offers two integrated undergraduate-graduate (IUG) degree programs (B.A./B.A./M.A. or B.A./B.S./M.A.) designed to allow academically superior students to obtain either a B.A. degree in Anthropology or a B.S. degree in Anthropological Science, a B.A. degree in Classics and Ancient Mediterranean Studies (CAMS), and an M.A. degree in Anthropology in five years of study.

#### Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (<https://gradschool.psu.edu/graduate-admissions/how-to-apply/>). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (<https://gradschool.psu.edu/graduate-education-policies/>).

Students who are applying to the Integrated Undergraduate and Graduate (IUG) program must complete the Graduate School application for admission (<http://www.gradschool.psu.edu/prospective-students/how-to-apply/>), and must meet all the admission requirements of the Graduate School and the Anthropology IUG graduate program, listed on the Admission Requirements tab. Before applying to the Graduate School, students must have completed entrance to their undergraduate major and have completed no less than 60 credits. Students must be admitted no later than the end of the second week of the semester preceding the semester of expected conferral of the undergraduate degree. Transfer students must have completed at least 15 credits at Penn State to enroll

in an IUG. Criteria for admission include a minimum GPA of 3.4 in their majors, strong recommendation letters from faculty, and an excellent proposal for a research project with a specific adviser who has agreed to guide the student through to the completion of the M.A. thesis or scholarly paper. In consultation with this adviser, students must prepare a plan of study appropriate to this integrated program, and must present their plan of study to the head of the graduate program or the appropriate committee overseeing the integrated program prior to being admitted to the program. The plan should cover the entire time period of the integrated program, and it should be reviewed periodically with an adviser as the student advances through the program.

#### Degree Requirements

Students must fulfill all requirements for each degree in order to be awarded that degree, subject to the double-counting of credits as outlined below. Degree requirements for the B.A. in Anthropology, B.A. in Classics and Ancient Mediterranean Studies, and B.S. in Anthropological Science are listed in the Undergraduate Bulletin (<https://bulletins.psu.edu/undergraduate/>). Degree requirements for the M.A. degree are listed below. Up to 12 credits may be double-counted towards the degree requirements for both the graduate and undergraduate degrees; a minimum of 50% of the double-counted courses must be at the 500 or 800 level. Independent study courses and credits associated with the culminating experience for the graduate degree cannot be double-counted.

Code	Title	Credits
<b>Courses Eligible to Double Count for Both Degrees</b>		
ANTH 541	Current Literature in Integrative Anthropology	1
ANTH 560	Ecology, Evolution, and Human Behavior	3
ANTH 571	Principles of Human Evolutionary Biology	3
ANTH 588	Method and Theory in Archaeology	3

Students must sequence their courses so all undergraduate degree requirements are fulfilled before taking courses to count solely towards the graduate degree. Students are expected to complete the undergraduate degree requirements within the typical time to degree for the undergraduate major. In the semester in which the undergraduate degree requirements will be completed, IUG students must apply to graduate, and the undergraduate degree should be conferred at the next appropriate Commencement. If students accepted into the IUG program are unable to complete the M.A. degree, they are still eligible to receive their undergraduate degree if all the undergraduate degree requirements have been satisfied.

## Joint Degrees

### Joint M.D. / Ph.D. with the College of Medicine

Requirements listed here are in addition to requirements listed in GCAC-211 Joint Degree Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-211-joint-degree-programs/>).

#### Admission Requirements

Prospective students interested in simultaneously pursuing a M.D. and Ph.D. degree must apply to the College of Medicine M.D. program using the national American Medical College Application Service (AMCAS) application system and indicate their intent to pursue the joint-degree program. Admissions requirements and applications for admission for Penn State College of Medicine are available at the M.D. Program (<http://med.psu.edu/md/>) section of the Penn State College of Medicine website. Applicants must also meet the admission requirements of the Graduate School and the Ph.D. admission requirements listed on the

Admission Requirements tab, however, the requirement for GRE scores is waived for students applying to the joint degree program.. The M.D./Ph.D. Admissions Committee reviews applications and evaluates candidates for acceptance into both the M.D. and Ph.D. programs. After the review committee has accepted an applicant to the joint degree program, s/he must apply to the Graduate School (<http://www.gradschool.psu.edu/prospective-students/how-to-apply/>) for admission to the graduate program. Applicants not accepted into the joint-degree program may be referred to either the M.D. or Ph.D. program, depending on their qualifications.

Applicants to this program generally have very strong grades and MCAT scores, as well as a strong and sustained background in research. Applicants must be able to clearly articulate reasons for pursuing the joint degree. Letters of recommendation from faculty who have advised the applicant in research and who can comment on the applicant's passion and potential for research are strongly encouraged.

### Degree Requirements

Students must fulfill all requirements for each degree in order to be awarded that degree, subject to the double-counting of credits outlined below. Degree requirements for the M.D. program are listed on the Penn State College of Medicine website (<http://www.med.psu.edu/web/md/home/>). For students enrolled in the joint degree program, the requirement for ANTH 572 and ANTH 573 will be waived, and students will be required to complete 2 credits of ANTH 541 instead of 6. The College of Medicine will accept 8 credits of ANTH 600 in lieu of two months of elective rotations (MED 797). In addition, the College of Medicine waives the requirement for a Medical Student Research project for students in the M.D./Ph.D. program.

If students accepted into the joint degree program are unable to complete the M.D. degree, they are still eligible to receive the Ph.D. degree if all the Ph.D. degree requirements have been satisfied.

In addition to the requirements for the Ph.D. committee (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-602-phd-committee-formation/>) for a Ph.D. student in the ANTH Graduate Program, at least one member of the Ph.D. committee must be on the M.D./Ph.D. Steering Committee. This member may serve other roles on the Ph.D. committee.

M.D./Ph.D. students must complete 25 credits. Candidates for the M.D./Ph.D. in ANTH will take all of the core courses for the ANTH Ph.D., as well as electives chosen by the ANTH M.D./Ph.D. student in consultation with their primary mentor. In the first semester of the second year at UP, all students in the ANTH Ph.D. program are required to take ANTH 509, the research methods seminar. ANTH 508, Anthropological Data Analysis and Visualization, is also required for all ANTH Ph.D. students and may be taken at any point in the first two years. Students without suitable preparation in statistics may also be required to take a course at the 400 or 500 level at the advisor's discretion. At any point during the first two years, M.D./Ph.D. students may be required to take up to 6 additional credits of advanced seminars, as directed by their adviser. The M.D./Ph.D. students pursuing the ANTH Ph.D. are also required to enroll in a one-unit literature review seminar (ANTH 541) for one credit each semester during the first two semesters of study. In addition to taking the required core courses and the literature review course, six credits of elective courses may be required in consultation with the student's dissertation adviser and Ph.D. committee. Eight credits of ANTH 600 conducted over the four years of the graduate portion of the training program will be counted by the College of Medicine in lieu of two months of elective rotations

(MED 797). The College of Medicine's requirement for a Medical Student Research project is also waived for all M.D./Ph.D. in ANTH candidates.

The Ph.D. committee of an M.D./Ph.D. student in ANTH will be formed upon successful passing of the ANTH qualifying examination and commencement of work under a primary mentor, no later than the end of the first semester of the second year of graduate study at UP. The committee must include at least two members of the ANTH graduate faculty and one member of the M.D./Ph.D. steering committee.

The comprehensive examination for ANTH M.D./Ph.D. students will follow the same guidelines as for Ph.D. students in ANTH, except that the comprehensive examination must be held before the end of the second academic year at UP. The M.D./Ph.D. student must write a dissertation proposal in preparation for the comprehensive exam, and a final version of the dissertation proposal must be circulated by the student to all committee members at least four weeks in advance of the comprehensive exam. The comprehensive examination for M.D./Ph.D. students will be an oral examination which may be open to the public. The examination will consist of student presentation of their dissertation proposal, followed by questions and discussion.

The dissertation requirements for ANTH Ph.D. and ANTH M.D./Ph.D. students are the same: All Ph.D. candidates must conduct original research and prepare a dissertation that makes a significant contribution of new knowledge, is presented in a scholarly manner, and demonstrates an ability on the part of the candidate to do independent research of high quality. The contents and conclusions of the dissertation must be defended at the time of the final oral examination.

## Minor

A graduate minor is available in any approved graduate major or dual-title program. The default requirements for a graduate minor are stated in Graduate Council policies listed under GCAC-600 Research Degree Policies (<https://gradschool.psu.edu/graduate-education-policies/>) and GCAC-700 Professional Degree Policies (<https://gradschool.psu.edu/graduate-education-policies/>), depending on the type of degree the student is pursuing:

- GCAC-611 Minor - Research Doctorate (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-611-minor-research-doctorate/>)
- GCAC-641 Minor - Research Master's (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-641-minor-research-masters/>)
- GCAC-709 Minor - Professional Doctorate (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/gcac-709-professional-doctoral-minor/>)
- GCAC-741 Minor - Professional Master's (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/gcac-741-masters-minor-professional/>)

## Student Aid

Graduate assistantships available to students in this program and other forms of student aid are described in the Tuition & Funding (<https://gradschool.psu.edu/graduate-funding/>) section of The Graduate School's website. Students on graduate assistantships must adhere to the course load limits (<https://gradschool.psu.edu/graduate-education-policies/gsad/gsad-900/gsad-901-graduate-assistants/>) set by The Graduate School.

## Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Anthropology (ANTH) Course List (<https://bulletins.psu.edu/university-course-descriptions/graduate/anth/>)

## Learning Outcomes

### Doctor of Philosophy (Ph.D.)

1. Graduates will demonstrate comprehensive understanding of the history and current knowledge and theory in the field of Anthropology through written works, oral presentations and teaching endeavors.
2. Graduates will be able to identify research questions in anthropology, develop a research design to examine questions using appropriate data collection methods, analyze the data using appropriate statistical methodology, and interpret the results of data analysis.
3. Demonstrate effective communication of research ideas in written works and oral presentations. Demonstrate effective communication of current topics in Anthropology through development of clear and engaging lectures and assignments for undergraduate courses.
4. Graduates will be able to develop an effective, original research proposal that is framed by current anthropological theory and methods.
5. Graduates will demonstrate knowledge of the professional standards of scholarly and professional work in their field of anthropology through their written and oral works and interactions with colleagues.

## Contact

<b>Campus</b>	University Park
<b>Graduate Program Head</b>	Tim Ryan
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