

## Committee on Graduate Studies Report to the Faculty July 2021 - June 2022

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### Introduction

William & Mary (W&M) identifies itself as a premier public research university, a designation that is as much tied to the excellence of its graduate programs as its reputation as an undergraduate liberal arts and sciences institution. Arts & Sciences (A&S) contributes to graduate education and graduate-level research through eleven selective programs: six are Ph.D. granting (Anthropology, American Studies, Applied Science, Computer Science, History, Physics), three offer terminal research master’s degrees (Biology, Chemistry, Psychological Sciences) and two offer terminal professional master’s degrees (Computational Operations Research, Public Policy). A&S graduate programs rank favorably compared to other academically rigorous programs in the nation, providing their students with the expertise and opportunities usually associated with larger research universities. (For a summary of recent rankings, see the [2020-21 COGS Annual Report](#).) The strength of the graduate programs at W&M places us in a more competitive peer group, with higher average faculty salaries. Our competitiveness with peer and aspirational peer institutions helps attract new faculty, students, and staff, as well as instructional, research, and infrastructure resources that otherwise would not be available to us.

Aside from producing graduates with advanced training who are ready for leadership positions across a broad spectrum of careers, graduate studies in A&S contributes to another fundamental goal of any research university: meaningfully advancing the frontiers of knowledge in all represented disciplines. In several key areas, the contributions of graduate research assistants are considered essential to achieving this goal, and their presence is critical to recruiting and retaining the strongest research-active faculty. The inability to provide enough doctoral students to work with research-active faculty members has caused some to leave W&M. The departure of these research-active faculty members represents a substantial scholarly, pedagogical, and financial loss to the University.

The research conducted by A&S graduate programs also enables a large proportion of the undergraduate research opportunities offered on campus, including in research areas that would not be available otherwise. Graduate students help mentor undergraduate researchers and facilitate faculty-undergraduate research collaborations. As undergraduate research is an important component of W&M’s mission, recruiting and supporting research-active graduate students also strengthens our ability to deliver a distinctive undergraduate educational experience. In addition, A&S graduate students enrich the

undergraduate program by serving as tutors, writing preceptors, lab and discussion section leaders, teaching assistants, instructors, and graders in courses with high enrollments and those central to the COLL curriculum.

## Report Items

The 2021-22 academic year represented the final year of Virginia Torczon's nine-year tenure as Dean of Graduate Studies and Research. The first two report items below are notable accomplishments that are a direct consequence of her leadership and her awareness of the importance and needs of the graduate student body in A&S.

I.) A plan was developed to increase stipends provided by the Office of Graduate Studies (OGS) to graduate student Teaching Assistants. This was motivated by a desire to keep W&M stipends competitive with those offered at peer institutions, and to compensate for the negative effects of inflation and its impact on graduate student cost-of-living expenses. The plan was finalized with input from the incoming Vice Dean for Research and Graduate Studies, Chris Carone and with the strong support of the Dean of the Faculty of Arts & Sciences, Maria Donoghue Velleca. A summary of the 2022-23 total compensation amounts (including stipends and summer fellowships) and the percent changes from the 2021-22 amounts are shown in the Table 1 below. These increases were announced on June 30, 2022, the last day of the period covered by this report and were met by favorable comments from a number of faculty who are invested in graduate student training.

	2022-23 Annual Support	% Change from 2021-22
American Studies, Anthropology, History	\$25,400	8.55%
Applied Science, Computer Science, Physics	\$29,000	7.41%
Chemistry	\$22,640	8.04%
Biology, Psychological Sciences	\$20,160	8.04%

*Table 1. Teaching Assistant (TA) total compensation (including summer fellowships) funded by the Office of Graduate Studies*

II.) The 2021-22 academic year was also the first year of a pilot program, authorized by Provost Peggy Agouris and former Chief Operating Officer Amy Sebring, to subsidize the W&M student health insurance premium for eligible graduate students earning a degree that requires submitting either a dissertation or thesis. The program was designed to remediate health insurance cost increases for A&S graduate students to preserve the value of current financial aid packages for enrolled graduate students (retention) and remain competitive among peer institutions in attracting future graduate students (recruitment). The subsidy provided by the Office of Graduate Studies in 2021-22 was at the gross rate of 65% of the premium amount; in 2022-23, this was raised to 75%, with agreements that each affected department or program would fund the remaining 25% for that year. Maintaining 100% coverage of the premium amount (hopefully, through something more permanent than a pilot program and ad hoc agreements with the individual units) will allow W&M to remain competitive among peer institutions in recruiting highly qualified and diverse candidates, necessary if we are to achieve the climate of excellence and inclusion that is valued across Arts & Sciences.

III.) At the May 18, 2022 meeting of the A&S Committee on Graduate Studies (COGS), eleven graduate directors reported on the results of their recruiting efforts for Fall 2022 admissions. American Studies had 36 completed applications, representing a pool notable for its quality and diversity. Of 8 doctoral

positions offered, 4 accepted; of 5 offered slots in the MA program, 3 accepted. Anthropology had 18 completed applications for the MA/PhD and PhD programs, with 3 accepting; 6 completed applications for the MA program provided 3 acceptances. All of the incoming Anthropology students are female, and all but one of these students has a B.A. or an M.A. from an outside institution. Applied Science had 37 completed applications and recruited an incoming class of 3 students; they report that this under-recruitment stems from the quality of applicants, which declined due to the limitations on recruitment efforts imposed by the pandemic. Biology had 43 completed applications, made 12 offers and received 9 acceptances. Biology reports that five of the nine incoming students are from institutions outside of W&M, five are female and four from underrepresented racial minorities. Chemistry had 19 completed applications for 3 available spots with OGS funding; an additional two admitted students would be funded by federal grants. At the time of their report, three students had been admitted, with two recommended, pending admission. Computer Science received 35 completed MS applications of which 21 were recommended for acceptance and 7 accepted; they received 68 applications to the Ph.D. program, doubling the amount compared to the previous year, of which 18 were recommended for admission and 9 accepted. Computational Operations Research saw a 20% decrease in the number of submitted applications from the past few years; 7 of 13 recommended students accepted the offer of admission, including 5 international students. Of these 7, two are 2022 W&M graduates. History received 79 applicants to its sequential MA/PhD program. Five of the first six offers accepted, a first for the department. There were 32 applicants to the terminal master's degree program; 15 admissions offers were made, 10 to students who applied to the terminal master's program and 5 to students who had originally applied to the MA/PhD program. Six students accepted in total. Physics made 20 admissions offers with 12 acceptances. This represents the highest acceptance rate (60%) seen by the department (which has a 30%, long-term historical average) and includes two Zable awards and one Fulbright Fellow. Psychological Sciences had 151 applications submitted (8 fewer than the previous year) for 9 available spots. All allocated spots were filled. Four of the 9 are students of color, seven identify as women and one student is an international student. Public Policy had 7 incoming students between BA/MPPs and MPPs, with an overall target of approximately 10 students. A number of outstanding offers were not settled at the time of their report.

IV.) Members of the Arts & Sciences Committee on Graduate Studies (COGS) met remotely via Zoom six times during Fall 2021 and six times during Spring 2022. A summary of highlights from their meetings includes:

- Seven departments or programs (Anthropology, Applied Science, Chemistry, Computer Science, Physics, Psychological Sciences, and Public Policy) suspended the course catalog requirement that applicants provide Graduate Record Exam (GRE) scores, making the scores optional for students in the Fall 2022 (or in some cases, the Fall 2023) cohort. In most cases, the submission of GRE scores was made optional; one department, Psychological Sciences, had its petition approved to neither require nor accept GRE scores. While waivers of the GRE requirement began in the 2020-21 academic year, motivated by the pandemic, there is also a growing realization that other institutions are dispensing with the GRE requirement altogether. For this reason, requiring the GRE increasingly places W&M at a competitive disadvantage in recruitment, an issue that will be examined by COGS in the 2022-23 academic year.
- In the September 9, 2021 meeting, Maria Donoghue Velleca, Dean of the Faculty of Arts & Sciences visited COGS. A number of issues were raised by COGS members in the ensuing discussion, including: the lack of support for recruitment to the A&S graduate programs; the need for additional funding to support the A&S graduate program; the need to recognize the additional work done by faculty and staff within the A&S graduate programs; the support for graduate programs to generate revenue, with a percentage of the revenue returning directly to the program for reinvestment; the need to recognize the uniqueness of each A&S graduate program; the need for support for current endeavors (e.g., mentoring programs); the need to develop mutual trust between the A&S Dean's office and A&S faculty. Further discussion

regarding the Dean's visit occurred in the October 21, 2022 meeting.

- In its November 4, 2021 meeting, COGS approved the creation of a Graduate Certificate in Data and Computer Science. This approval came with the understanding that the Department of Computer Science would host the autonomous 15 credit hour certificate program, with administrative support coming from the Data Science Unit. It was noted that Tony Stefanidis will serve as the Director of the Data Science Unit and Jaime Settle as the Associate Director, effective Spring 2022. This certificate program requires SCHEV approval, which Associate Provost Bosworth noted would likely come in Fall 2023. In its February 23, 2022 meeting, COGS approved proposed catalog wording for the new Graduate Certificate in Data and Computer Science. In addition, COGS approved a petition from Applied Science to add Data Science to the list of concentrations from which Applied Science graduate students may choose a research field.

Other items that were discussed in COGS, included clarifying OGS guidance on font and font sizes for theses and dissertations (in particular, that LaTeX users choose Computer Modern, sans serif, since the other ADA compliant option, Arial font, is not available in LaTeX.). Regarding commencement, it was decided that a single reader of degrees awarded for all graduates of A&S graduate programs was preferred, and that reader should be from A&S. Dean Torczon agreed to read the names of graduates from all of the A&S graduate programs, with Hannah Rosen volunteering to serve as a back-up if needed.

For those members of the Faculty of Arts & Sciences interested in further details regarding COGS discussions and decisions, copies of the COGS minutes are available upon request from the Office of Graduate Studies.

## Course Approvals and Revised Degree Requirements

### ANTHROPOLOGY

The following changes were approved by COGS on September 9, 2021.

#### COURSE DESCRIPTION:

ANTH 690 – ~~Directed Research~~ Master's Independent Study

ANTH 790 – ~~Independent Study~~ Doctoral Independent Study

The following changes were approved by COGS on February 23, 2022.

#### DEGREE REQUIREMENTS:

COGS approved Anthropology's petition to remove the phrase “, *must fall within the time specified by the general Arts & Sciences requirements for degrees,*” from the catalog language regarding [Transfer of Graduate Credit](#).

The following changes were approved by COGS on May 4, 2022.

#### COURSE ADDITIONS:

##### ANTH 602 – Grants and Research Design

*3 Prerequisites(s): None. Kahn.*

Throughout this course, students will go through the steps of crafting a research design, engaging in: how to develop problem-oriented research, how to frame research questions,

how to select appropriate sampling strategies, how to create and manage data, and how to operationalize a research design in the field. Following this, students will prepare a grant proposal written according to the standards of a major Anthropological funding agency, like the National Science Foundation.

**ANTH 604 – Historical Anthropology**

*3 Prerequisite(s): None. Wright*

Over the past half-century, scholars located in the disciplines of anthropology and history have opened a dialogue between the two disciplines that allows for a sharing of methodologies and an exchange of theoretical approaches. This seminar will explore the ways in which the interstices between anthropology and history provide new space for engaging with culture, history, and the production of knowledge. We will explore how researchers work in between the two disciplines, and we will learn how contemporary scholars use anthro/historical perspectives.

**ANTH 610 – Engaged Archaeology**

*3 Prerequisite(s): None. Horning*

This graduate level seminar will explore the philosophical, theoretical, and ethical underpinnings for inclusive practices in archaeology. Taking a global approach, we will examine a wide range of case studies in community and collaborative archaeologies, aiming to identify best practice and develop skills which students can then apply to their own projects.

**ANTH 614 – Archaeologies of Ancestors**

*3 Prerequisite(s): None. Norman*

This course will examine how archaeologists study ancestral practices related to ritual and religion and to the most sacred aspects of a person's/community's life. This course surveys the most recent literature on archaeological approaches to religion and ritual. It is designed to contextualize this topic within the history of the discipline.

**ANTH 616 – Archaeologies of Identity**

*3 Prerequisite(s): None. Horning*

The course is designed as a critical overview and analysis of the ways in which archaeologists have interrogated the concept of identity. We will explore particular categories of identity such as ethnicity, race, class, gender, age, religion, community and household, work and occupation, genetics, nationalism and politics, indigeneity and post-coloniality.

The following changes were approved by COGS on May 4, 2022.

**ADMISSIONS REQUIREMENTS:**

COGS approved Anthropology's petition to suspend the acceptance of GRE scores for applications for admission to their MA, MA/PhD, and PhD programs through the Fall 2023 entering cohort.

The following changes were approved by COGS on May 4, 2022.

**DEGREE REQUIREMENTS:**

COGS approved the catalog revisions for:

COGS approved the catalog revisions for:

- Anthropology Program section
- PhD Program section
- MA/PhD Program section
- MA Program section

## The Anthropology Program

The Department of Anthropology at William & Mary offers ~~a Master's M.A., M.A./Ph.D., and a Ph.D. degree~~ programs. The M.A. in Anthropology specializes in Historical Archaeology and is a terminal degree designed to prepare students for careers in historical archaeology and related professions. The ~~sequential M.A./Ph.D. and~~ Ph.D. programs, with specializations in Historical Archaeology and Historical Anthropology, ~~is-are~~ designed to prepare students for research, professional, and teaching positions in Anthropology.

### Admission

Students have the option of enrolling directly into the ~~terminal M.A. -only~~ program, into the sequential M.A./Ph.D. program, or into the Ph.D. program. Applicants to the Ph.D. program must have completed the Anthropology M.A. degree, either at William & Mary or at another institution. Students who have completed an M.A. in a discipline closely related to Anthropology may petition the Graduate Committee to determine whether their degree may be accepted in lieu of an M.A. in Anthropology.

Admission is competitive, based on such criteria as grade point average, ~~GRE scores,~~ letters of recommendation, experience, ~~and~~ educational history, ~~a writing sample, and a personal essay.~~ Minimally, each applicant must have a B.~~Aachelor's or B.S.~~ degree in ~~anthropology~~Anthropology, or a related discipline, and a 3.0 grade average (on a 4.0 scale). Graduate studies begin in the fall; there are no spring admissions.

William & Mary uses an online application system. ~~Application materials consist of -GRE scores taken within the past five years, GRE scores taken within the past five years, official transcripts from all higher educations attended, three letters of recommendation, a personal statement in essay format, and a writing sample. If English is not your first language, your Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) scores are required and must be sent directly to William & Mary by the Educational Testing Service Educational Testing Service or IELTSIELTS. The TOEFL/IELTS requirement can be waived for applicants who will have received a degree from a college or university in which English is the primary language of instruction. A transcript is required as evidence of successful instruction in English as a primary language. For full consideration, applications and all supporting materials for both the M.A., -and the M.A./Ph.D., and Ph.D. programs must be received by December 15. Applications submitted after the program deadline may be evaluated if space is available only at the discretion of the Director of Graduate Studies (DGS) and demonstration of extenuating circumstances.~~ The M.A./Ph.D and Ph.D. programs in

Anthropology at William & Mary require full-time study. Full-time and part-time students will be considered for admission into the [terminal M.A. ~~-only~~](#) program.

## Programs and Course Descriptions

### Programs

- [Anthropology, Historical Archaeology or Historical Anthropology Specialization, Ph.D.](#)
- [Anthropology, Historical Archaeology or Historical Anthropology Specialization, Sequential M.A./Ph.D.](#)
- [Anthropology, Historical Archaeology Specialization, M.A.](#)

### Courses

#### Anthropology

#### Description of Courses

Unless otherwise noted, all courses are graded using standard grading [A, B, C, D, F] scheme (See [Grading and Academic Progress](#) in the section entitled Graduate Regulations) and may not be repeated for credit (See [Repeated Courses](#) requirements in the section entitled Graduate Regulations).

- [ANTH 527 - Native People of Eastern North America](#)

[Print \(opens a new window\)](#)

#### ANTH 527 - Native People of Eastern North America

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*Spring 3 Bragdon.*

This course treats the native people of eastern North America as they have been viewed ethnographically, theoretically and historically. Students will apply anthropological theory to historical and contemporary issues regarding native people of the eastern United States, and develop critical skills through reading, research and writing about these people.

- [ANTH 528 - Methods in Archaeological Science](#)

[Print \(opens a new window\)](#)

### **ANTH 528 - Methods in Archaeological Science**

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*Fall or Spring (4) Kahn. Note: There will be 1.5 hours of lecture/class discussion and 2.5 hours of lab/discussion per week.*

This survey and lab course focuses on the application of scientific methods of analysis to archaeological materials, including stone, bone, coral, charcoal, plant remains, and other organic materials. The emphasis will be on the history of archaeological science within the discipline and current advances in physical science applications in archaeology. Topics to be covered include Dating Techniques (Relative and Absolute, with an emphasis on Chronometric techniques), Geomorphology, Soils Analysis, and Environmental Reconstruction; Compositional Analysis, Materials Analysis, and Technology; Microscopy and Provenance Studies. At least half of the course will involve hands on learning with archaeological materials and datasets in the lab.

- [ANTH 545 - Special Topics in Anthropology](#)

[Print \(opens a new window\)](#)

### **ANTH 545 - Special Topics in Anthropology**

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*Fall and Spring (1-3) Staff.*

Areas of current research interest presented by resident and visiting faculty. *Course may be repeated for credit when topics vary.*

- [ANTH 550 - Archaeological Conservation \(I\)](#)

[Print \(opens a new window\)](#)

### **ANTH 550 - Archaeological Conservation (I)**

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*Fall (3) Staff.*

An introduction to the theory and practice of archaeological conservation, including

systems of deterioration, treatment, and storage. The first semester emphasizes the material science and technological underpinnings of archaeological artifacts.

- [ANTH 551 - Archaeological Conservation \(II\)](#)

[Print \(opens a new window\)](#)

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### **ANTH 551 - Archaeological Conservation (II)**

*Spring (3) Staff.*

In the second semester, students receive instruction and experience in the laboratory treatment of artifacts from 17th to 19th century archaeological sites in North America and the West Indies.

- [ANTH 553 - Zooarchaeology](#)

[Print \(opens a new window\)](#)

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### **ANTH 553 - Zooarchaeology**

*Spring (4) ~~Bowen~~Staff.*

An introduction to the identification and interpretation of animal bones recovered from archaeological sites.

- [ANTH 554 - Quantitative Research Methods in Anthropology](#)

[Print \(opens a new window\)](#)

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### **ANTH 554 - Quantitative Research Methods in Anthropology**

*Fall (34) Gallivan.*

Introduction to the design and implementation of quantitative research in anthropology. Statistical methods covered include those used in describing and interpreting archaeological, biological, ethnographic and linguistic data. The course focuses on exploratory data analysis, probability, sampling, hypothesis testing, correlation and regression.

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- [ANTH 556 - Human Skeletal Biology](#)

[Print \(opens a new window\)](#)

### **ANTH 556 - Human Skeletal Biology**

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*Fall or Spring (3) ~~Blakey~~ ~~and~~ Jones.*

This course covers technical aspects of human identification involving skeletal remains. These techniques include bone and tooth identification, age and sex estimation, and methods for the assessment of nutrition and disease in archaeological populations.

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- [ANTH 557 - The Archaeology of Colonial Williamsburg and Tidewater Virginia](#)

[Print \(opens a new window\)](#)

### **ANTH 557 - The Archaeology of Colonial Williamsburg and Tidewater Virginia**

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*Spring (3) ~~Brown~~ Staff.*

This course examines the archaeological research on sites located in and around Williamsburg, the capital of the colony of Virginia from 1699-1781. The course explores the contributions that archaeological research has made to understanding the development of Jamestown and Williamsburg, in relation to a regional, plantation-based economy and society. Consideration is also given to larger issues surrounding the relative position of Williamsburg and its hinterland within the Atlantic World. Specific comparisons will be made with the development of other English colonies such as Bermuda and Barbados.

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- [ANTH 558 - Caribbean Archaeology](#)

[Print \(opens a new window\)](#)

### **ANTH 558 - Caribbean Archaeology**

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*Fall (3) Staff.*

The archaeology of western Atlantic islands for the period 1492-1900 AD. The pre-Columbian background, contact between indigenous and European groups, European settlement and island development will be examined through recent archaeological work on urban settlements, military forts, commercial structures, sugar mills and others.

- [ANTH 559 - Tsenacomoco: Native Archaeology of the Chesapeake](#)

[Print \(opens a new window\)](#)

### **ANTH 559 - Tsenacomoco: Native Archaeology of the Chesapeake**

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*Spring (3) Gallivan.*

This class explores the “deep history” of Native Chesapeake societies by tracing a 15,000- year sequence resulting in the Algonquian social landscape of “Tsenacomoco”. The class considers Pleistocene-era settlement, hunter-forager cultural ecology, Woodland-period migration, agricultural adoption, chiefdom emergence, Native responses to colonialism, and contemporary uses of the Native past.

- [ANTH 566 - Directed Studies](#)

[Print \(opens a new window\)](#)

### **ANTH 566 - Directed Studies**

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*Fall and Spring (variable 3-4 credits) Graded Pass/Fail*

No credits earned in this course may be applied to the number of credits required to

satisfy graduate degree requirements. *This course may be repeated.*

- [ANTH 584 - Collecting and Exhibiting Culture](#)

[Print \(opens a new window\)](#)

### **ANTH 584 - Collecting and Exhibiting Culture**

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*Fall or Spring (3) Moretti-Langholtz, Norman.*

The process of assembling material artifacts across cultural boundaries. The course will examine the history of field collecting in different parts of the world, questions of cultural ownership, theories of acquisition and preservation used by museums and private collectors, and issues in the exhibiting of both objects and people. Readings will draw mainly on material from Canada, the U.S., Mesoamerica, the Caribbean, Africa, and Europe.

- [ANTH 592 - Biocultural Anthropology](#)

[Print \(opens a new window\)](#)

### **ANTH 592 - Biocultural Anthropology**

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*Spring (3) Blakey, ~~and~~ Jones.*

Recent advances in the study of interactions between human biology and culture are examined. Biocultural anthropology extends beyond the limitations of evolutionary theory, employing political and economic perspectives on variation in the physiology and health of human populations.

- [ANTH 600 - Socio-Cultural Theory](#)

[Print \(opens a new window\)](#)

### **ANTH 600 - Socio-Cultural Theory**

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*Fall (3) -~~Staff~~ [Bragdon, Glasser, and Weiss](#).*

The course will discuss major concepts, theories and findings in cultural and social Anthropology. Students will be introduced to the history of thought within the discipline from 19th-century evolutionism to postmodernism. This course includes training in the responsible and ethical conduct of research, as well as discussion of fabrication, falsification, and plagiarism.

- [ANTH 603 - Archaeological Theory](#)

[Print \(opens a new window\)](#)

### **ANTH 603 - Archaeological Theory**

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*Spring (3) -~~Staff~~ [Horning, Kahn, and Norman](#).*

An examination of the major concepts and methodological approaches in prehistoric archaeology as background for the understanding of historical archaeology.

- [ANTH 605 - Anthropological Linguistics](#)

[Print \(opens a new window\)](#)

### **ANTH 605 - Anthropological Linguistics**

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*Spring (3) [Bragdon](#).*

This course will examine the history and theories of linguistic anthropology. Focus will be on the ways in which linguistics has influenced the development of anthropological theories concerning cognition and practice.

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- [ANTH 606 - Documentary Anthropology](#)

[Print \(opens a new window\)](#)

### **ANTH 606 - Documentary Anthropology**

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*Fall (3) Bragdon.*

Introduction to methods and theories of text analysis for archaeological and anthropological research. Structural, symbolic and cognitive models of culture are presented. Emphasis is on the integration of these models, the use and evaluation of documents by historical archaeologists, and research with primary historical data.

- [ANTH 607 - Bioarchaeology and the African Diaspora](#)

[Print \(opens a new window\)](#)

### **ANTH 607 - Bioarchaeology and the African Diaspora**

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*Fall or Spring (3) Blakey.*

This course is a graduate seminar on the use of paleopathological and paleodemographic data derived from human skeletons uncovered at archaeological sites. The historic archaeological sites of the African Diaspora in the Americas provide the comparative examples of the course.

- [ANTH 611 - Historical Archaeology](#)

[Print \(opens a new window\)](#)

### **ANTH 611 - Historical Archaeology**

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*Spring (3) Horning.*

An historical review of the method and theory of American historical archaeology, with emphasis upon specific research strategies and accomplishments in relation to the broader

study of American material culture. The role of historical archaeology within historic preservation, cultural resource management, and historic museums will also be considered.

- [ANTH 612 - American Material Culture](#)

[Print \(opens a new window\)](#)

### **ANTH 612 - American Material Culture**

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*Fall (3) Horning.*

This course examines American life and culture, past and present, through its material artifacts. It focuses on the historical development and behavioral aspects of American material culture as revealed by archaeological and documentary research. The relationship of material culture including vernacular architecture, ceramics, glass, mortuary art, and other household and industrial artifacts, and various social dimensions, such as social class, gender and ethnicity, will be explored.

- [ANTH 613 - Historical Archaeology of the American South](#)

[Print \(opens a new window\)](#)

### **ANTH 613 - Historical Archaeology of the American South**

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*Spring (3) Staff.*

The course tests the notion of Southern uniqueness and Southern identity against an array of archaeological evidence dating from the earliest colonial settlements through to the archaeology of the Depression era.

- [ANTH 615 - North American Prehistory](#)

[Print \(opens a new window\)](#)

### **ANTH 615 - North American Prehistory**

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*Spring (3) Gullivan.*

A seminar on the prehistory of North America north of Mexico. Topics covered are: the peopling of North America, the cultural development of indigenous peoples, the archaeology of Native Americans, and the cultural processes that attempt to explain North American culture history.

- [ANTH 640 - Presentation and Paper](#)

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### **ANTH 640 - Presentation and Paper**

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*Spring (3) ~~Staff~~Bragdon, Horning, Kahn, Lelièvre, ~~and~~ Norman.*

This seminar prepares students for the Presentation and Paper requirement through a program that includes reading examples of anthropological scholarship, developing and revising an article-length paper, and publicly presenting a scholarly argument. All students in the M.A./Ph.D. and Ph.D. tracks will complete the Presentation and Paper process during their fourth semester by writing a paper that engages questions of anthropological significance and by presenting the paper to the department by the end of the academic year.

- [ANTH 645 - Special Topics in Anthropology](#)

[Print \(opens a new window\)](#)

### **ANTH 645 - Special Topics in Anthropology**

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*Fall and Spring (variable 1-3 credits) Staff .*

Areas of current research interest presented by resident and visiting faculty. *Course may*

*be repeated for credit when topics vary.*

- [ANTH 690 - Master's Independent Study](#)

[Print \(opens a new window\)](#)

### **ANTH 690 - Master's Independent Study**

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*Fall and Spring (3) Staff.*

A program of extensive reading, writing and discussion in a special area of Anthropology for students entering the M.A./Ph.D. program without a previous graduate degree. Students accepted for this course will arrange their program of study with an appropriate faculty advisor.

- [ANTH 695 - Directed Thesis Master's Research](#)

[Print \(opens a new window\)](#)

### **ANTH 695 - Directed Thesis Master's Research**

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*Fall and Spring (variable 3-9 credits) Staff: Graded Pass/Fail. Note: Students who are not submitting a master's thesis may not use this course to satisfy degree requirements.*

Students design and conduct research in support of their master's thesis under the direction of a faculty advisor. —*This course may be repeated, but no more than 9 semester credit hours may be used to satisfy degree requirements for submitting a master's thesis.*

- [ANTH 700 - Thesis](#)

[Print \(opens a new window\)](#)

### **ANTH 700 - Thesis**

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*Fall and Spring (variable 1-12 [credits](#)) Staff. Graded :Grade of either G or U converts to P upon successful completion of a defense and submission and acceptance of the thesis.*

Students finish the research for and the writing of their master's thesis under the direction of a faculty advisor. -Students who are not submitting a master's thesis may not use this course to satisfy degree requirements. *This course may be repeated, but no more than 6 semester credit hours may be used to satisfy degree requirements for a thesis master's (only).*

- [ANTH 766 - Directed Studies](#)

[Print \(opens a new window\)](#)

### **ANTH 766 - Directed Studies**

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*Fall and Spring (variable 1-12 [credits](#)) ~~Staff~~ Staff. Graded Pass/Fail.-*

No credits earned in this course may be applied to the number of credits required to satisfy graduate degree requirements. *-This course may be repeated.*

- [ANTH 790 - Doctoral Independent Study](#)

[Print \(opens a new window\)](#)

### **ANTH 790 - Doctoral Independent Study**

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*Fall and Spring (3) Staff.*

A program of extensive reading, writing and discussion in a special area of historical anthropology or historical archaeology for the Ph.D. student. Students accepted for this course will arrange their program of study with an appropriate faculty advisor. *This course may be repeated for credit if there is no duplication of material.*

- [ANTH 795 - Directed Dissertation Research](#)

[Print \(opens a new window\)](#)

### **ANTH 795 - Directed Dissertation Research**

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*Fall and Spring (variable 3-12 [credits](#)) Staff. Graded Pass/Fail Note: Students who are not submitting a dissertation may not use this course to satisfy degree requirements.*

Students design and conduct research in support of their dissertation under the direction of a faculty advisor. *-This course may be repeated, but no more than 12 semester credit hours may be used to satisfy degree requirements for a student submitting a dissertation.*

- [ANTH 800 - Dissertation](#)

[Print \(opens a new window\)](#)

### **ANTH 800 - Dissertation**

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*Fall and Spring (variable 1-12 [credits](#)) Staff. Note: Grade of either G or U converts to P upon successful completion of a defense and submission and acceptance of the dissertation.*

Students finish the research for and the writing of their dissertation under the direction of a faculty advisor. Students who are not submitting a dissertation may not use this course to satisfy degree requirements. *This course may be repeated, but no more than 24 semester credit hours may be used to satisfy degree requirements for a doctorate (only).*

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### **Anthropology GRAD**

- [GRAD 999 - Continuous Enrollment](#)

[Print \(opens a new window\)](#)

### **GRAD 999 - Continuous Enrollment**

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*Fall and Spring (0) Graded Satisfactory/Unsatisfactory*

Continuous Enrollment status allows students to maintain active graduate student status with William & Mary and to access some William & Mary resources, including the libraries, email, and laboratories.

To secure Continuous Enrollment status, the student must request permission from their program to enroll in GRAD 999 and must pay the Continuous Enrollment Fee. A student in Continuous Enrollment status may not register for any other credit-bearing courses at William & Mary.

## APPLIED SCIENCE

The following changes were approved by COGS on February 23, 2022.

### COURSE ADDITIONS:

With the understanding that there will be new TTE faculty hires teaching Data Science courses at the graduate level, **COGS approved both DATA 510 and the DATA 543 as new courses** in support of the new Graduate Certificate in Data and Computer Science.

The following changes were approved by COGS on February 23, 2022.

### DEGREE REQUIREMENTS ADDITIONS:

COGS approved adding Data Science to the list of Concentrations from which Applied Science graduate students may choose a research field.

The following changes were approved by COGS on March 23, 2022.

### COURSE DESCRIPTION:

COGS approved Applied Science's petition for a correction to the course descriptions for DATA 510 and DATA 543 to reduce the number of credits to 3 instead of 4.

The following changes were approved by COGS on May 4, 2022.

### COURSE ADDITION:

COGS approved APSC 642 – Applied Machine Learning, as a new course.

### COURSE DESCRIPTION:

COGS approved the changes to the catalog description for APSC 784 – Imaging Methods.

The following changes were approved by COGS on May 4, 2022.

### ADMISSIONS REQUIREMENTS:

COGS approved Applied Science's petition to suspend the requirement of GRE scores for applications for admission to their Ph.D. program through the Fall 2023 entering cohort, **effective September 1, 2022.**

## BIOLOGY

The following changes were approved by COGS on May 4, 2022.

### COURSE ADDITIONS:

COGS approved, with the noted amendments:

#### **Biol 513 – Plant Diversity and Identification**

*Fall (1) Case. Prerequisite(s): Approval of instructor; Corequisite: BIOL ~~504~~ 513L*

#### **Biol 513L – Plant Diversity and Identification Lab**

*Fall (2) Case. Prerequisite(s): Approval of instructor; Corequisite: BIOL 504 513*  
as new courses.

## CHEMISTRY

The following changes were approved by COGS on September 23, 2021.

### ADMISSIONS REQUIREMENTS:

COGS voted to approve to Chemistry's petition to make GRE scores optional starting in Fall 2021 (for applicants for admission in 2022) for a trial period of 2 years.

## COMPUTER SCIENCE

The following changes were approved by COGS on September 9, 2021.

### ADMISSIONS REQUIREMENTS:

COGS voted to approve Computer Science's petition to make GRE scores optional starting Fall 2021 (for applicants for admission in 2022) for a trial period of 2 years.

The following changes were approved by COGS on November 18, 2021.

### DEGREE REQUIREMENTS:

After a discussion, COGS members approved the creation of a Graduate Certificate in Data and Computer Science with the understanding that:

- The Department of Computer Science will host the autonomous 15 credit hour certificate program.
- The Data Science Unit within Computer Science will provide the administrative support for the certificate program.
- Vice-Dean Tandeciarz confirmed Tony Stefanidis will be the Director of the Data Science Unit and Jaime Settle will serve as the Associate Director of the Data Science Unit, effective Spring 2022.
- Data Science is already an interdisciplinary program that involves faculty across A&S and is considering additional joint appointments.
- There is money from the state that is designated for TTE hires in Data Science.
- In addition, W&M has submitted a proposal to JLAB about the possibility of a bridge position at W&M in Data Science and Physics.
- This structured program will be in place for the next 2½ years, with the possibility of becoming permanent.
- Students entering this program will have to have the equivalent of at least a CS minor. Depending on the student's background, applicable remedial courses may be needed.
- The completion of the certificate will appear on the student's W&M transcript.
- SCHEV will have to approve implementation of the certificate program. Associate Provost Bosworth noted that this should be possible for Fall 2023.
- Once all requirements for the initiation of this program have been met, then a contract with ManTech can be executed.

### NEW COURSE:

The following changes were approved by COGS on February 23, 2022.

CSCI 543 – Capstone (3 credit hours) This course is intended to provide a capstone experience for

graduate students by synthesizing knowledge and experience that they acquired in earlier coursework to address a complex data and computational science problem. The course requires analytical, collaborative, and communication skills.

**COURSE REQUIREMENTS:**

The following changes were approved by COGS on February 23, 2022.

COGS approved dropping "Data Management Systems" as the prerequisite for CSCI 636, Big Data Systems.

The following changes were approved by COGS on May 4, 2022.

**COURSE ADDITIONS:****CSCI 642 – Compiler Techniques for High Performance Computing**

*3 Prerequisite(s): None*

This course aims to introduce various compiler optimization techniques for high performance computing (HPC), such as compiler analysis, code transformation, code optimization, instruction parallelism, multicore parallelism, cache management, modern parallel architectures, and programming models. In addition, students will explore related seminal and recent scientific publications in this area.

**CSCI 645 – Software Maintenance and Evolution**

*3 Prerequisite(s): None*

This course will cover foundational techniques and recent advances in software maintenance and evolution, such as software change management, software quality measurement, software quality assurance, mining of software repositories, software refactoring, defect prediction, defect management, and software documentation.

**CSCI 646 – Deep Learning**

*3 Prerequisites: None*

This course explores deep learning models in different research areas, ranging from computer vision and natural language processing (NLP) to graph representation. More specifically, this course will cover the foundations and advances in basic deep neural networks, deep generative models, language modeling, self-supervised learning, graph neural networks, and recent advances in the field.

**COMPUTATIONAL OPERATIONS RESEARCH**

The following changes were approved by COGS on February 23, 2022.

**NEW COURSE:**

COGS voted to approve cross listing the new course MATH 455 as MATH 555.

The following changes were approved by COGS on May 18, 2022.

**DEGREE REQUIREMENTS:**

The following Mathematics courses may count towards the 32 credit hours and do not require the graduate credit permission form for a course taken outside of their program of study.

**MATH 524, MATH 551, MATH 552 and/or MATH 555.**

## HISTORY

The following changes were approved by COGS on May 18, 2022.

### ADMISSIONS REQUIREMENTS:

COGS approved continuing to make the GRE scores optional for applications for admission to the History MA, MA/PhD, and PhD programs through the Fall 2023 entering cohort.

The following changes were approved by COGS on May 18, 2022.

### DEGREE REQUIREMENTS:

COGS approved History's petitions to use the degree requirements approved for the 2022-2023 Graduate Arts & Sciences Catalog to certify the Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, and Fall 2021 M.A./Ph.D. and Ph.D. entering cohorts for graduation.

COGS approved the catalog revisions for:

- The History Program section
- History, M.A. section
- History, Combined M.A./Ph.D. section

## The History Program

The History Department offers a Master's Degree program and a sequential combined Master's and Doctoral Degree program, and a Master's program.

The Doctoral program is for students wishing to earn both an M.A. and Ph.D. at William & Mary. Students will receive instruction in teaching techniques and have opportunities to serve as Teaching Assistants and to teach their own courses under the supervision of faculty. Ph.D. students receive full funding (tuition, fees, and stipend) for six years.

The Master's program is a small and intensive program where students earn their M.A. in one year. Applicants to the M.A. program may apply for apprenticeships in archives and manuscript collections, editing scholarly books and William and Mary Quarterly articles, various aspects of public history, and digital humanities computing. ~~Students chosen to serve as apprentices receive a small stipend.~~

Students who begin the M.A./Ph.D program with a William & Mary Master's Degree in hand will go directly to the second year of the M.A./Ph.D program.

## Admission

William & Mary uses an online application system. Applicants must submit official transcripts, ~~and~~ three letters of recommendation, and GRE scores taken within the past five years. ~~Submission of Graduate Record Exam scores is optional, and GRE scores taken within the past five years.~~ A writing sample is required. If English is not your first language, your Test of English as a Foreign Language (TOEFL) or International English Language Testing System

(IELTS) scores are required and must be sent directly to William & Mary by the Educational Testing Service or IELTS. The TOEFL/IELTS requirement can be waived for applicants who have received a degree from a college or university in which English is the primary language of instruction. A transcript is required as evidence of successful instruction in English as a primary language. For full consideration, completed applications must be submitted by December 5 for Fall admissions for the M.A. and Ph.D. programs. Applications submitted after the program's deadline may be evaluated if space is available. Minimum requirements for admission include an overall academic average of 3.0 on a 4.0 scale and the completion of 24 semester hours of work in history. Additional hours in history and course work in a foreign or classical language are highly recommended.

Part-time students are not eligible for financial support.

## Programs and Course Descriptions

### Programs

- [History, M.A.](#)
- [History, Sequential Combined M.A./Ph.D.](#)

### Courses

#### History

#### Description of Courses

Courses listed in this catalog are not offered every academic year.

Unless otherwise noted, all courses are graded using standard grading [A, B, C, D, F] scheme (See [Grading and Academic Progress](#) in the section entitled Graduate Regulations) and may not be repeated for credit (See [Repeated Courses](#) requirements in the section entitled Graduate Regulations).

- [HIST 501 - Independent Study in History](#)
- [HIST 502 - Independent Study in History](#)
- [HIST 566 - Directed Studies](#)
- [HIST 590 - Topics in History](#)
- [HIST 695 - Directed Thesis Master's Research](#)
- [HIST 700 - Thesis](#)
- [HIST 701 - Historian's Craft](#)
- [HIST 705 - Teaching History](#)
- [HIST 706 - Dissertation Proposal Writing Class](#)

- [HIST 712 - Research Seminars](#)
- [HIST 715 - Readings Seminars](#)
- [HIST 766 - Directed Studies](#)
- [HIST 795 - Directed Dissertation Research](#)
- [HIST 800 - Dissertation](#)

### History GRAD

- [GRAD 999 - Continuous Enrollment](#)
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### History, M.A.

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Students will take two semesters of coursework and will prepare a research portfolio. Most full-time students will complete the requirements within one year. The History Department's Graduate Regulations contain details on how to fulfill the following requirements.

### Course Requirements

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All M.A. students must complete 24 credit hours of coursework, **not including credits for HIST 700 - Thesis**. These 24 credit hours will include:

- [HIST 695 - Directed Thesis Master's Research \(variable 3-9\) \(Total of 6 credits\)](#)
- [HIST 700 - Thesis \(variable 1-12\) \(Course required but not for credit\)](#)
- [HIST 701 - Historian's Craft \(3\)](#)
- [HIST 712 - Research Seminars \(3\) \(Select two for a total of 6 credits\)\\*](#)
- [HIST 715 - Readings Seminars \(3\) \(Select three for a total of 9 credits\)\\*](#)
- [\\*Upon approval by the Director of Graduate Studies, students may take up to 6 credits in History 590 or graduate-level courses in other departments/programs not cross-listed under History. These courses will usually serve as a substitute for History 715, and if appropriate, History 712.](#)

### Thesis Requirement

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Students will prepare a research portfolio consisting of two major research papers approved by a committee.

### Exam Requirement

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See the Graduate Regulations.

### Foreign Language Requirement

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Candidates must demonstrate by departmental examination a reading knowledge of a foreign or classical language other than English.

### Residence Requirement

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Full-time M.A. students must be in residence for at least two semesters.

### Satisfactory Progress

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Full-time M.A. students must complete all degree requirements by the end of the fourth semester following matriculation. Those admitted as part-time students must complete all degree requirements within three years of starting the program.

To be eligible to graduate, all students must achieve a cumulative grade point average of 3.0 on a 4.0 scale in all courses undertaken for graduate credit at William & Mary after admission to a degree program. A student who receives a grade of C+ (2.3) or lower in a course may repeat that course one time for credit, upon approval of both the instructor of the course and the graduate director for the student's program. When such a repeat attempt is approved, the grades for both attempts will count in the cumulative GPA, but on the most recent attempt will count toward the degree. No credit toward a degree will be allowed for a course in which a student receives a grade below C (grade point = 2.0).

All requirements for the master's degree must be completed within six years from the first term of enrollment in the master's program, excluding periods of approved leave and military service. Requests for extension beyond the six-year limit must be filed following the procedures outlined in Time Limits for Degrees and Extensions in the Graduate Arts & Sciences Catalog

### History, Sequential Combined M.A./Ph.D.

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Students in the Ph.D. program will earn both the M.A. and Ph.D. degrees. The History Department's Graduate Regulations contain details on how to fulfill the following requirements.

#### Course Requirements

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Three years of coursework are required for the Ph.D. degree. In their first year, students must complete all course requirements for the William & Mary M.A. degree. Students who begin the M.A./Ph.D program with a William & Mary Master's Degree in hand will go directly to the second year of

the M.A./Ph.D. program. In their second year, candidates for the Ph.D. degree must complete at least 18 hours of graduate coursework in History 715, 712, or the equivalent, and six hours of credit in HIST 800 - Dissertation). In the spring of their third year, students take History 705 (Teaching – 1 credit) and History 706 (Dissertation Prospectus – 3 credits). A total of 24 hours of credit in HIST 800 is required to satisfy the degree requirements for the award of a Ph.D. in Arts & Sciences.

\*Upon approval by the Director of Graduate Studies, students may take up to 12 credits in History 590 or graduate-level courses in other departments/programs not cross-listed under History. These courses will usually serve as a substitute for History 715, and if appropriate, History 712.

### **Qualifying Exam Requirement**

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In the fall semester of their third year, Ph.D. students take a written and oral comprehensive qualifying examination in four fields. To qualify to take the comprehensive examinations, students must have completed any outstanding requirements by the end of the previous semester.

### **Dissertation Requirement**

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See Graduate Regulations.

### **Foreign Language Requirement**

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Candidates must demonstrate by departmental examination a reading knowledge of a language other than English.

Ph.D. students must complete the Foreign Language requirement by the end of their fourth semester in residence.

### **Residence Requirement**

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See Graduate Regulations.

### **Satisfactory Progress**

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To be eligible to graduate, all students must achieve a cumulative grade point average of 3.0 on a

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4.0 scale in all courses undertaken for graduate credit at William & Mary after admission to a degree program: A student who receives a grade of C+ (2.3) or lower in a course may repeat that course one time for credit, upon approval of both the instructor of the course and the graduate director for the student's program. When such a repeat attempt is approved, the grades for both attempts will count in the cumulative GPA, but only the most recent attempt will count toward the degree. No credit toward a degree will be allowed for a course in which a student receives a grade below C (grade point = 2.0).

All requirements for the Ph.D. must be completed within seven years from the first term of enrollment in the Ph.D. program, excluding periods of approved leave and military service. For a student enrolled in a master's program in the College of Arts & Sciences who subsequently advances to candidacy in the doctoral program in the same field, the terms of enrollment in the master's program will count towards the seven-year limit for the doctoral degree unless otherwise stated in the letter of admission.

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### **PHYSICS**

The following changes were approved by COGS on September 23, 2021.

#### **ADMISSIONS REQUIREMENTS:**

COGS voted to approve to Physics petition to make GRE scores optional starting in Fall 2021 (for applicants for admission in Fall 2022) for a trial period of 2 years.

The following changes were approved by COGS on May 18, 2022.

#### **ADMISSIONS REQUIREMENTS:**

COGS approved continuing to make the GRE Physics subject test score optional for applications for admission to the Physics Ph.D. program through the Fall 2023 entering cohort.

### **PSYCHOLOGICAL SCIENCES**

The following changes were approved by COGS on September 9, 2021.

#### **ADMISSIONS REQUIREMENTS:**

COGS voted to approve the Psychological Sciences' petition to neither require nor accept GRE scores for master's degree applicants for the Fall 2022 entering cohort.

The following changes were approved by COGS on May 4, 2022.

#### **ADMISSIONS REQUIREMENTS:**

COGS approved Psychological Sciences' petition to continue to suspend the acceptance of GRE scores for applications for admission to their MS program through the Fall 2023 entering cohort.

## PUBLIC POLICY

The following changes were approved by COGS on September 23, 2021.

### ADMISSIONS REQUIREMENTS:

COGS voted to approve the Public Policy petition to neither require nor accept GRE scores for master's degree applicants for the Fall 2022 entering cohort.

The following changes were approved by COGS on May 4, 2022.

### COURSE ADDITIONS:

#### PUBP 619 – Social Network Analysis

3 Prerequisite(s): None

A social network is a collection of actors (people, organizations, countries, etc.) and the relationships (friendships, advice-giving relationships, financial exchanges, common membership in a club, trade relationships, etc.) that connect them. Social network analysis (SNA) is a discipline that arose from the revelation that *these relationships matter* in understanding how individual actors behave. By visualizing and calculating the mathematical properties of these networks, SNA provides important information that traditional analysis tools do not.

## GRADUATE ADMISSIONS

The following changes were approved by COGS on June 15, 2022.

Change the paragraph found in [Admissions: Procedure](#) from:

*A student can be enrolled in only one graduate program in A&S, unless the programs are listed in this catalog as combination degree programs. Exceptions require written approval from the Dean of Graduate Studies and Research and the Directors of Graduate Studies for both degree programs. In general, exceptions will only be approved for students who have completed all of the coursework required for one of the A&S degree programs. A student cannot receive stipend or tuition funding simultaneously from more than one W&M degree program, unless the degree programs are listed as combination at the front of this catalog.*

To:

*A student can be enrolled in only one graduate program at W&M unless the two programs are listed in this catalog as a combined degree program offered by [Graduate Arts & Sciences](#). Exceptions require written approval from the [Vice Dean for Research and Graduate Studies](#) and the Directors of Graduate Studies for both degree programs. In general, exceptions will only be approved for students who have completed all the coursework required for one of the two degree programs. A student cannot receive stipend or tuition funding simultaneously from more than one W&M degree program unless the two degree programs are listed in this catalog as a combined degree program offered by [Graduate Arts & Sciences](#).*

Change the paragraph found in [Registration Requirements](#) from:

*If an Arts & Sciences graduate student enrolls in a degree-granting program at another academic institution without prior approval from their advisor, their Director of Graduate Studies,*

*and the Dean of Graduate Studies and Research, then they will be suspended from their graduate program in Arts & Sciences by the Dean of Graduate Studies and Research.*

To:

*If an Arts & Sciences graduate student enrolls in another degree-granting program either at William & Mary or at another academic institution without prior approval from their advisor, their Director of Graduate Studies, and the Vice Dean for Research and Graduate Studies, then they will be suspended from their graduate program in Arts & Sciences by the Vice Dean for Research and Graduate Studies.*

## Graduate Center Annual Report

### Staff and Facilities

The Graduate Center organizes and sponsors a variety of activities, events, and zero-credit courses for graduate and professional students in Arts & Sciences. Sarah Glosson, Director of the Arts & Sciences Graduate Center, administers the Center, which, at the time, resided in Stetson House at 232 Jamestown Road.

In Fall 2021, Spring 2022 and Summer 2022, three W&M faculty and staff members taught eleven Graduate Center courses. The Graduate Center continued to work collaboratively with other W&M offices and schools to expand the scope of activities and events offered to enhance the participation of all A&S graduate students.

### Graduate Center Highlights

Appendix I provides a listing and summary of participation in selected Graduate Center activities, events, and courses since Fall 2012.

- **GRAD Courses:** Total course enrollment for the calendar year was 83. The students enrolled were a mix of domestic and international graduate students. The director of the Graduate Center made updates to certain GRAD courses to meet the needs of A&S graduate students related to the ongoing Covid-19 pandemic. The revised English language courses continue to be successful. Increasingly, to better fit students' schedules and research demands, GRAD courses are offered as one-week "boot camps" rather than as 10-week courses and sometimes now include asynchronous components to help students fit the courses into their schedules.
- **3MT:** The 3MT was not held in 21-22 due to a second year of constraints and challenges posed by the Covid-19 pandemic.
- **Emerging Scholars Series:** In partnership with the Williamsburg Regional Library, the Graduate Center hosted six public talks open to the local community. These talks featured 8 doctoral students from history, anthropology, applied science, biology, computer science, physics, and American studies and reached a total audience of 122.
- **Graduate Writing Resources Center:** The Graduate Center partners with the Writing Resources Center to offer graduate-level writing consultation at the Graduate Writing Resources Center (GWRC). In 2021-22, 4 graduate students from A&S and one from Education were hired and trained in peer writing consultation at the graduate level. The GWRC offered both online and in-person consultation to accommodate student needs. They also continued a modest pilot that offered asynchronous appointments in which a specially trained consultant offered video feedback on writing; this proved popular with students unable to attend appointments during our normal operating hours.
- **Professional Development Workshops:** In partnership with individual graduate programs, W&M Libraries, the Cohen Career Center, the Wellness Center, and the Reves Center, the Graduate

## Graduate Center Annual Report

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- **Professional Development Workshops:** In partnership with individual graduate programs, W&M Libraries, the Cohen Career Center, the Wellness Center, and the Reves Center, the Graduate Center offered/supported nine workshops and panels on a variety of topics including Academic Writing, Career Conversations workshop series, CVs and Resumes, Teaching Statements and Diversity Statements, Website Creation, Science Writing Tips, Scholarly Publishing and Author's Rights, Applying for Fellowships, and more. Attendance across all workshops totaled roughly 115 attendees.
- **GSAB Mentoring Program:** The goal of this program is to foster one-on-one mentorships intended to help students build professional skills. In Spring 2018 we piloted this new program with volunteer mentors from the GSAB. In 2018-19 we expanded the pilot to include "friends and family" of the GSAB to serve as mentors. For 2021-22, fourteen students signed up to participate. This was a sharp increase over the previous year, returning us to pre-pandemic levels of participation. Seven GSAB members and five other alumni and friends of the university served as mentors.

**Other Activities Sponsored by the Office of Graduate Studies and Research**

- **Graduate Research Symposium:** The GRS was not held in 21-22 due to constraints and challenges posed by the Covid-19 pandemic. It will return in 22-23.
- **Newsletter:** The Graduate Center's "Graduate A&S Newsletter" is distributed by email to A&S graduate students as well as faculty and staff affiliates every Monday during the academic year. Each academic year there are approximately thirty issues of the newsletter. Entries include links to events posted in the [A&S Graduate Studies & Research Events Calendar](#), as well as to webpages containing pertinent information.

## **A&S Graduate Ombudsperson Report for July 2021 – August 2022**

Evgenia Smirni, Professor, Computer Science

A total of nine graduate students and one graduate director contacted the ombudsperson for consultation for a wide-range of issues including general information on various issues including payroll, medical leaves, complaints about conduct, student-teacher conflicts, advisor-advisee relationships, work relationships, and allegations of psychological abuse and retaliation.

In all cases, the ombudsperson helped by directing the graduate students to the appropriate entity within A&S or assisted in devising solutions that would serve the graduate students' best interests. Specifically, the ombudsperson provided relevant information, acted as mediator, and proposed possible courses of action.

The time-scale of meetings varied widely, with the simplest matters resolved in a week or so, and more complex matters requiring several weeks of meetings and discussions.

Smirni participated in the bi-weekly meetings of the Committee on Graduate Studies (COGS) throughout the academic year, with the goal of maintaining close contact with the graduate programs of Arts and Sciences.

All cases have been resolved

### **Committee on Graduate Studies Members, 2021-22**

Virginia Torczon, Chair  
Hannah Rosen, American Studies  
Jennifer Kahn, Anthropology  
Dan Runfola, Applied Science  
Diane Shakes and Joshua Puzey (co-directors), Biology  
Bill McNamara, Chemistry  
Pieter Peers, Computer Science  
Rex Kincaid, Computational Operations Research  
Paul Mapp, History  
Mike Kordosky, Physics  
Cheryl Dickter, Psychological Sciences  
Elaine McBeth, Public Policy

## Appendices

**APPENDIX I**

**GRADUATE CENTER PARTICIPATION  
Fall 2017 - Summer 2022**

Course	F 2017	S 2018	Summer 2018	F 2018	S 19	Summer 2019	F 19	S 20	Summer 20	F 20	S 21	Summer 21	F 21	S 22	Summer 22
GRAD 501	9			5			5			4			4		
GRAD 502											3			4	
GRAD 503		8		9			5	9		8			7		
GRAD 505	8	3			10			9			10			9	
GRAD 510				7	3		8			11	5	17	10	10	
GRAD 512			6	10		7	6								
GRAD 520	5	5			7		6				5			10	
GRAD 522				4			5			5					
GRAD 529			8			9			8		8				5
GRAD 530	9	7		8	8		9	9	8	8	8		8	7	
GRAD 540 001	9	13			6			3		6					
GRAD 540 002	9	6			8										
GRAD 560	4												10		
<b>Course Subtotals</b>	<b>53</b>	<b>42</b>	<b>14</b>	<b>43</b>	<b>42</b>	<b>16</b>	<b>44</b>	<b>30</b>	<b>8</b>	<b>42</b>	<b>39</b>	<b>17</b>	<b>39</b>	<b>40</b>	<b>5</b>
Workshops	F 2017	S 2018	Summer 2018	F 2018	S 19	Summer 2019	F 19	S 20	Summer 20	F 20	S 21	Summer 21	F 21	S 22	Summer 22
Academic Writing in the US	18			25			6								
Job Market for the Humanities		8								6	10	8			
Prep for Provost Dissertation Fellowship Application	13			8			12			14			10		
CV for the Sciences										3					
Preparing for the Scientific Job Market		23						10			15				
Alt-Ac-Careers				6				5						7	
ETD/Copyright/Embargo		8	8	7		9									
Digital Identity Roundtable/Digital Scholarship	8											23		2	22
Writing Skills for Sciences	9			4			24			21			21		
Oral Presentation Skills				35											
Bibliographies & Citations Made Easy				11			13								
Author's Rights & Publishing					7		2						6	1	
Elevator Pitch (Symposium)					6										
Career Development Series (various topics)													5	4	
GWRC Workshop Series (various topics)													23	18	
3MT Presentation Workshop	10			9			11								
<b>Workshop Subtotals</b>	<b>58</b>	<b>39</b>	<b>0</b>	<b>105</b>	<b>13</b>	<b>9</b>	<b>68</b>	<b>15</b>	<b>0</b>	<b>44</b>	<b>25</b>	<b>31</b>	<b>65</b>	<b>32</b>	<b>22</b>
Programs	F 2017	S 2018	Summer 2018	F 2018	S 19	Summer 2019	F 19	S 20	Summer 20	F 20	S 21	Summer 21	F 21	S 22	Summer 22
Graduate Research Symposium		1100			1000			*			*			*	
Raft Debate		465			650			*			*			*	
<b>Program Subtotals</b>	<b>0</b>	<b>1565</b>	<b>0</b>	<b>0</b>	<b>1650</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>111</b>	<b>1646</b>	<b>14</b>	<b>148</b>	<b>1705</b>	<b>25</b>	<b>112</b>	<b>45</b>	<b>8</b>	<b>86</b>	<b>64</b>	<b>48</b>	<b>104</b>	<b>72</b>	<b>27</b>

\*due to COVID-19 the GRS and Raft Debate were postponed

**APPENDIX II**

**APPLIED, ACCEPTED and ENROLLED**

**Fall 2017 - Fall 2021**

		Applied	Accepted		Enrolled		Avg UG <sup>(1)</sup>	Avg GRE Scores <sup>(2,3)</sup>		
			Total	Rate	Total	Rate	GPA	Verbal	Math	Writing
American Studies	2017	41	20	49%	10	50%	3.59	157	139	4.25
	2018	39	15	38%	7	47%	3.69	162	153	5.08
	2019	24	13	54%	6	46%	3.10	162	151	4.41
	2020	33	19	58%	9	47%	3.60			
	2021	40	15	38%	8	53%	3.40			
Anthropology	2017	39	13	33%	5	38%	3.65	163	155	5.00
	2018	37	11	30%	6	55%	3.73	163	148	4.17
	2019	47	11	23%	6	55%	3.40	156	148	3.83
	2020	33	7	21%	6	86%	3.80			
	2021	50	10	20%	9	90%	3.50			
Applied Science	2017	44	16	36%	10	63%	3.71	154	161	3.55
	2018	20	6	30%	4	67%	3.74	161	163	4.00
	2019	13	6	46%	6	100%	3.30	158	156	3.75
	2020	12	4	33%	3	75%	3.50			
	2021	15	10	67%	5	50%	3.40			
Biology	2017	44	10	23%	8	80%	3.60	162	155	4.70
	2018	40	12	30%	8	67%	3.85	163	158	4.71
	2019	56	17	30%	8	47%	3.60	159	155	4.38
	2020	44	8	18%	8	100%	3.60			
	2021	129	10	8%	7	70%	3.50			
Chemistry	2017	28	11	39%	6	56%	3.42	157	156	4.10
	2018	18	7	39%	5	71%	3.40	161	157	4.38
	2019	13	6	46%	6	100%	3.30	157	158	3.91
	2020	18	5	28%	5	100%	3.60			
	2021	16	7	44%	5	71%	3.90			
Computer Science <sup>(4)</sup>	2017	131	43	38%	22	51%	3.48	155	165	3.75
	2018	139	50	36%	17	34%	3.57	157	162	3.87
	2019	100	35	35%	22	88%	3.10	155	162	3.80
	2020	105	28	27%	24	86%	3.40			
	2021	102	50	49%	28	56%	3.70			
History	2017	103	28	27%	18	64%	3.70	158	151	4.75
	2018	96	17	18%	11	65%	3.60	164	153	4.75
	2019	97	29	30%	14	48%	3.30	162	154	4.57
	2020	86	30	35%	7	23%	3.70			
	2021	119	31	26%	13	42%	3.80			
Physics	2017	105	20	19%	7	35%	3.89	153	165	3.40
	2018	61	17	28%	8	47%	3.73	155	159	3.69
	2019	51	22	43%	8	36%	3.80	157	162	4.12
	2020	54	21	39%	9	43%	3.80			
	2021	78	29	37%	11	38%	3.80			
Psychological Sciences	2017	78	9	12%	8	89%	3.76	160	155	4.50
	2018	116	15	13%	9	60%	3.57	161	158	4.89
	2019	102	8	8%	7	88%	3.40	163	154	5.07
	2020	99	9	9%	8	89%	3.70			
	2021	159	13	8%	8	62%	3.60			
Public Policy <sup>(5)</sup>	2017	75	48	64%	22	46%	3.55	160	155	4.15
	2018	42	28	67%	10	36%	3.66	159	158	4.43
	2019	48	5	10%	4	80%	3.80	163	154	4.87
	2020									
	2021	40	27	68%	9	33%	3.30			

<sup>(1)</sup> Average of UG transcripts submitted by enrolled students.

<sup>(2)</sup> Average GRE scores submitted by enrolled students. GRE General Test scores reported 130–170, in 1 point increments.

<sup>(3)</sup> Due to COVID-19 related difficulties in taking the GRE scores, Graduate Arts & Sciences suspended this requirement for applicants beginning in 2020. Submission was optional as additional information provided by applications. Not submitting GRE scores did not negatively impact consideration for admission.

<sup>(4)</sup> This includes applicants to and students admitted to the Computational Operations Research master's program.

<sup>(5)</sup> For Fall 2020, Provost Agouris suspended admissions to the Master of Public Policy program.

**APPENDIX III  
GRADUATE STUDENT ENROLLMENTS<sup>(1)</sup>**

**Fall 2017 to Fall 2021**

Department	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
American Studies	45	43	42	41	34
Anthropology	33	37	31	34	35
Applied Science	36	35	29	31	30
Biology	16	23	19	17	19
Chemistry	13	12	9	11	11
Computer Science <sup>2</sup>	100	85	79	82	83
History	59	48	48	42	45
Physics	63	56	51	50	52
Psychological Sciences	16	20	17	15	16
Public Policy	38	26	16	3	10
<b>TOTALS</b>	<b>419</b>	<b>385</b>	<b>341</b>	<b>326</b>	<b>335</b>

Notes:

<sup>1</sup> Totals include full-time, part-time and continuous enrollment registration, including dual degree students in Law, Business, and Education in 2021-2022.

<sup>2</sup> Includes Computational Operations Research.

**APPENDIX IV  
GRADUATE STUDENT ENROLLMENT BY DEGREE FALL 2021**

Program	MA	MS	MA/PhD	MS/PhD	PhD	MPP	Total
American Studies	6		2		26		34
Anthropology	11		1		23		35
Applied Science					30		30
Biology		19					19
Chemistry		11					11
Computer Science		11		4	48		63
COR		20					20
History	7		6		32		45
Physics				9	43		52
Psychological Sciences		16					16
Public Policy (MPP)						10	10
	<b>MA</b>	<b>MS</b>	<b>MA/PhD</b>	<b>MS/PhD</b>	<b>PhD</b>	<b>MPP</b>	
<b>Total Enrollment</b>	<b>24</b>	<b>77</b>	<b>9</b>	<b>13</b>	<b>202</b>	<b>10</b>	<b>335</b>

**APPENDIX V**  
**GRADUATE DEGREES AWARDED DURING THE LAST 10 YEARS**  
**(August 2012 – May 2022)**

DEPARTMENT	PROGRAM INITIATED	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	SINCE AUG. 2012
American Studies	1982-MA	6	7	5	3	3	8	3	2	5	3	45
	1988-PhD	7	6	9	5	11	4	5	5	7	7	66
Anthropology	1979-MA	7	8	3	6	5	2	4	3	4	4	46
	2001-PhD	4	7	2	1	5	7	4	2	2	1	35
Applied Science	1970-MA/MS	4	6	2	2	0	2	7	1	1	0	25
	1990-PhD	8	4	6	2	5	5	3	9	2	4	48
Biology	1963-MA/MS	11	8	7	9	9	7	8	9	8	3	79
Chemistry	1964-MA/MS	6	6	8	4	4	7	7	4	3	5	54
Computer Science <sup>1</sup>	1984-MS	15	23	17	17	30	20	13	17	13	10	175
	1986-PhD	7	6	4	12	8	9	12	10	11	6	85
History	1955-MA	14	12	13	7	16	11	16	12	16	6	123
	1967-PhD	3	2	5	4	9	5	4	5	2	8	47
Physics	1959-MA/MS	13	13	5	7	18	12	6	10	6	10	100
	1964-PhD	5	5	7	9	16	16	14	4	6	11	93
Psychological Sciences	1953-MA	3	8	12	7	8	10	4	0	0	0	52
	2019-MS							2	5	12	10	29
Public Policy	1991-MPP	20	19	18	20	18	21	13	13	3	1	146
Totals	MA/MS/MPP	99	110	90	82	111	100	83	76	71	52	874
	PhD	34	30	33	33	54	46	42	35	30	37	374

<sup>1</sup> Includes Computational Operations Research.