

# Graduate Catalog Addendum



## School of Arts and Sciences

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# ACADEMIC STRUCTURE

## Graduate Programs of Study

SCHOOL OF ARTS AND SCIENCES					
DIVISION	DEPARTMENT	MAJOR/CONCENTRATION	DEGREE	CIP CODE	MINIMUM CREDIT HRS REQUIRED
<b>Humanities</b>	African American Studies/ Africana Women's Studies/History	▪ African American Studies	MA	50201	30
		▪ Africana Women's Studies	MA	50299	30
	English	▪ History	MA	540101	30
	Modern Foreign Languages	▪ English	MA	230101	30
		▪ French	MA	160901	30
		▪ Spanish	MA	160905	30
	Humanities Interdisciplinary Program	▪ Humanities Interdisciplinary Program Concentrations: • African American Studies • Africana Women's Studies • English • History • Romance Languages	PhD	50201 50299 230101 540101 160900	72
<b>Natural Sciences and Mathematics</b>	Biological Sciences	▪ Biology	MS	260101	36
		▪ Biology	PhD	260101	72
	Chemistry	▪ Chemistry	MS	400501	31
		• Biochemistry Concentration			36
		▪ Industrial Chemistry	MS	400501	37
		▪ Chemistry	PhD	400501	72
	Cyber-Physical Systems	▪ Computer Science	MS	110701	30
	Mathematical Sciences	▪ Mathematics • Pure Math Option • Applied Math Option	MS	270101	30
Physics	▪ Physics • Pure Physics Option • Applied Physics Option	MS	400801	30	
<b>Social Sciences</b>	Political Science	▪ Political Science Subfields: • International Relations • Public Policy • Urban Planning	MA	451001	30
		▪ Political Science	PhD	451001	72
	Public Administration	▪ Public Administration Specializations: • Community & Economic Development • Human Resource Mgmt • International Affairs & Development • Public Policy • Urban Development	MPA	440401	42 (Pre Service)
					36 (In Service)
	Sociology & Criminal Justice	▪ Criminal Justice	MA	430104	36
▪ Sociology		MA	451101	30	

# SCHOOL OF ARTS AND SCIENCES

**Office of the Dean**  
**Sage-Bacote Hall, Room 103**  
**Telephone: (404) 880-6610**

The School of Arts and Sciences is committed to creating and maintaining a thriving cultural and academic milieu in which students and faculty may fully develop their individual potential as human beings, leaders, scholars, teachers, and productive members of society.

The mission of the School of Arts and Sciences is to prepare broad-based scholars, researchers and practitioners who are leaders, lifelong learners, and productive global citizens; to provide the core curricular foundation for the University, and to enrich the University’s artistic and cultural environment.

The vision of the School of Arts and Sciences is to lead in the preparation and education of students and attain greater prominence in the global environment through research and creative expression, and its interdisciplinary programs that are recognized for academic excellence, and intellectual breadth and depth.

The School offers graduate degree programs through the divisions of Humanities, Natural and Mathematical Sciences, and Social Sciences, that provide a variety of uniquely designed high quality instructional programs and academic activities from cutting-edge research to preparing students to meet the demands of a career in various industries.

## Graduate Programs of Study

The degrees conferred by the School of Arts and Sciences are:

Master of Arts African American Studies Africana Women’s Studies Criminal Justice English French History Political Science Sociology Spanish	Doctor of Philosophy Biology Chemistry Humanities (Interdisciplinary Program) Concentrations: African American Studies Africana Women’s Studies English History Political Science
Master of Public Administration	
Master of Science Biology Chemistry Computer Science Mathematics Physics	

## **Communications Skills and School Certification Requirements for International Students**

The School of Arts and Sciences has two school-wide regulations intended to establish that students meet its standards for communications skills.

- a. All international students whose TOEFL score is less than 600 must pass an ESL test administered within the School of Arts Sciences.
- b. Each department designates the instrument specifically designed to determine whether a student has satisfactory communication skills. A copy of the instrument must be filed in the Dean's Office prior to the semester in which it is administered.

### **Foreign Language and/or Research Tools Requirement**

All students in the School of Arts and Sciences must demonstrate reading proficiency in French and Spanish. The Department of English and Modern Languages in the School of Arts and Sciences administers the test of the students' reading knowledge of the foreign languages of their choice. These examinations measure the ability to read selected passages from the literature of the major subject. Students may also meet this requirement by passing a three (3) credit course in French (CFLS 506) or Spanish (CSPA 506) for Graduate Students.

***or***

As a substitute, students may demonstrate reading proficiency in one (1) foreign language and by passing an examination in a graduate course in computer science, statistical analysis, or another applicable research tool.

*Graduate courses required in Research Tools such as foreign languages, computer science, statistical analysis, or another applicable research tool may not be used to satisfy the minimum graduate credit requirement for the Master's or Doctorate Degree.*

## Division of Humanities

The Division of the Humanities serves as a catalyst to all divisions and departments within the School of Arts and Sciences. In addition, it provides cultural and academic experiences designed for the promotion of scholarship and the training of competent scholars in African American and Africana Women's Studies, History and English. The humanities curricula relate African American experiences not only to the broader experiences of black people, but to those of other ethnic groups as well. In these instructional programs students are trained for careers as college and high school teachers of African American Studies, Africana Women's Studies, History, English and Humanities.

These programs seek to provide students with the tools and motivations for scholarly research while preparing them for study toward more advanced degrees and for leadership roles in higher education and in their communities. For those students who aspire to careers in the creative arts, the Division of Humanities endeavors to provide the knowledge, skills, and stimuli essential to the realization of their creative aspirations.

### **DEPARTMENT OF AFRICAN AMERICAN STUDIES/AFRICANA WOMEN'S STUDIES/HISTORY (AWH)**

**McPheeters-Dennis Hall, Suite 250**

**Telephone: (404) 880-8239**

#### **Overview**

The Department offers the **Master of Arts Degrees in African American Studies, Africana Women's Studies, and History**. These degree programs began as separate graduate programs but were conceived in the spirit of W.E.B. Du Bois, who pioneered research in these areas at Atlanta University. The long tradition of African, African American and Africana Women's Studies at Clark Atlanta University allows for integrative and interdisciplinary studies with many academic departments, particularly English, Foreign Languages, History, Political Science, and Sociology while permitting each area of study to maintain its own identity and to provide solid foundations for students in understanding and appreciating the history, culture, contributions and lifestyles of the black experience. With a strong commitment to advancing social justice, these programs strive to educate students stimulating intellectual growth and professionalism while fostering visionary, informed, culturally sensitive, and socially responsible scholarship.

The Department is committed to academic excellence and stresses the development of analytical skills and critical judgment. Curriculum emphasis in each of the degree programs is placed on acquiring academic research and writing skills along with an understanding of global issues, diverse cultures, and our shared humanity. As an extension of classroom instruction, students are encouraged to engage in practical applications of learning through service learning and community engagement, internships, and study abroad opportunities.

The graduate coursework leading to the **Master of Arts Degrees in African American Studies, Africana Women's Studies, and History** provide focus and breadth through a unique interdisciplinary studies approach by training students with opportunities for the systematic analysis of the convergence of gender, class, and racial bias as well as enhancing their historical and contemporary knowledge of scholars in other disciplines.

## **Programs of Study**

Master of Arts Degree in African American Studies (30 Credits)

Master of Arts Degree Africana Women's Studies (30 Credits)

Master of Arts Degree in History (30 Credits)

## **Mission**

The mission of the African American Studies Program is to provide students a course of study that imparts and expands knowledge related to the similar and dissimilar experiences of people of African-descent, historically and contemporarily, utilizing diverse interdisciplinary methodological approaches and theoretical inquiry to generate original research and promote social justice within the global community.

The mission of the Africana Women's Studies Program is to provide students an interdisciplinary course of study that centers black feminist/womanist analyses of the intersections of sex, gender, sexuality, class, etc. and to offer theoretical and methodological frameworks for understanding and deconstructing the social construction of identity, power, and inequality.

The mission of the History Program is to provide students a course of study that imparts historical knowledge of diverse human experiences and interactions, as well as a broad understanding of global issues and our shared humanity, while training historians of the 21st century.

## **Vision**

The vision of the African American Studies Program is to be a national leader in Africana Studies that prepares students to enter professions related to education, government, civic, and community service with a special emphasis on Africana knowledge and its place within national and global communities.

The vision of the Africana Women's Studies Program is to be a national leader in Women's, Sexuality and Gender graduate education known for its concentration on the experiences of Africana Women and to promote advanced interdisciplinary scholarship that contributes to the growing body of knowledge regarding black feminisms, womanisms, and resistance frameworks for social and political change.

The vision of the History Program is to be a national leader in History that imparts the historical knowledge and research skills expected of 21st century historians, while preparing students for a range of careers in academia and a range of other professional fields.

## **Program Overview**

### **Master of Arts Degrees in African American Studies (30 Credits)**

The **African American Studies** Program was established in the late 1960s. The African American Studies Program is designed for students with professional interest in a comprehensive understanding of African American or African diaspora culture needed for work in their target community and to equip educators with knowledge of and sensitivity to the teaching of African, African American, and cultures in the African diaspora.

### **Admissions Requirements**

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Arts degree in African American Studies** must have maintained a minimum cumulative grade point average (GPA) of 3.0 in twenty-four (24) credits of undergraduate study in an established discipline in the humanities, social sciences, or professional fields. Applicants with less than the minimum cumulative GPA of 3.0 in their undergraduate major but who otherwise show excellent promise of success may be **conditionally** admitted with the recommendations of the Department Admissions Committee and the Department Chair. GRE required.

### **Program Objectives**

1. Provide a comprehensive knowledge of concepts and theories related to African American and African diaspora cultures.
2. Prepare graduates for diverse professions in education, research, government and civic services that require an understanding of people of African descent to work in targeted communities.
3. Equip educators with knowledge and sensitivity to the teaching of African, African American, and African diaspora cultures.
4. Prepare students for opportunities in continuing or advanced studies.

### **Student Learning Outcomes**

Students pursuing the **Master of Arts Degrees in African American Studies** will:

1. Demonstrate knowledge of various Africana methodologies and utilize interdisciplinary research methods related specifically to the lived experiences of people of African descent both nationally and globally.
2. Demonstrate expertise in the major works, theorists, arguments, and the central concern of Africana Studies as an academic discipline.
3. Demonstrate proficiency in advanced Africana research skills utilizing appropriate methodologies to create an original research project with sound research questions, research design, and analysis.

## **AAS Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Master of Arts Degree in African American Studies** must complete a minimum of thirty (30) graduate credits. Students may select a thesis or a non-thesis option at the time of admission to the degree program. A written comprehensive examination is required. An oral defense of the thesis or non-thesis project is required.

### **Master of Arts Degree in African American Studies (30 Credits)**

#### **I. Required Courses: 6 Credits**

CAAS 501, Africa and the African Diaspora (3)

CAAS 710, Pro-Seminar in Africana Studies (3)

#### **Cognate Courses: 3 Credits**

CENG 530, The African Novel (3)

CPSC 591, Government and Politics of Modern Africa (3)

CPSC 598, African Political Economy (3)

CPSC 600, African Political Ideas (3)

CHIS 680, History of Africa to 1800 (3)

CHIS 681, History of Africa since 1800 (3)

#### **Approved Electives: 15 Credits**

CAAS/CAWS/CHIS XXX, Graduate Elective (3)

CAAS/CAWS/CHIS XXX, Graduate Elective (3)

CAAS/CAWS/CHIS XXX, Graduate Elective (3)

CAAS/CAWS/CHIS XXX, Graduate Elective (3)

CAAS/CAWS/CHIS XXX, Graduate Elective (3)

#### **II. Thesis Option or Non-Thesis Option: 6 Credits**

##### **Thesis Research: 6 Credits**

CAAS 805, Thesis Research (6)

*or*

##### **Capstone Courses: 6 Credits**

CAAS 652, Capstone I (3)

CAAS 653, Capstone II (3)

#### **III. Foreign Language Requirement**

\*All students in the School of Arts and Sciences must demonstrate reading proficiency in a foreign language. Students may test out of this requirement or take one of the following courses to fulfill the requirement. Credit hours earned in these courses do not count towards the 30 credits required for the MA degree.

CFLF 505, French for Graduate Students (3) *or*

CFLS 506, Spanish for Graduate Students (3)



## Plan of Study for Master of Arts Degree in African American Studies (30 Credits)

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CAAS 501	Africa and the African Diaspora	3	CAAS 710	Pro-Seminar in Africana Studies	3
CAAS/CAWS/CHIS XXX	Graduate Elective	3	CAAS/CAWS/CHIS XXX	Graduate Elective	3
CAAS/CAWS/CHIS XXX	Graduate Elective	3	CENG/CPSC/CHIS XXX	Cognate Course	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CAAS/CAWS/CHIS XXX	Graduate Elective	3	CAAS/CAWS/CHIS XXX	Graduate Elective	3
CAAS 805 <i>or</i> CAAS 652*	Thesis Research <i>or</i> Capstone I (non-thesis)	3	CAAS 805 <i>or</i> CAAS 653*	Thesis Research <i>or</i> Capstone II (non-thesis)	3
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>
* Students selecting the non-thesis option must complete both Capstone I & II courses.					

### Africana Women's Studies (30 Credits)

The **Africana Women's Studies** Program, founded in 1982, is the only degree-granting women's studies program located in a historically Black college in the United States, the only women's studies program in the United States which offers the doctoral degree concentration in Africana Women's Studies and one of only two Africana Women's Studies program in the world. This program focuses mainly on the comparative examination of the contributions, problems, strategies and concerns of Africana women. Analytical approaches that rigorously compare and contrast the lives of all women by class, age, and color without regard to their geographic location are strongly encouraged.

#### Admissions Requirements

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Arts degree in Africana Women's Studies** must have maintained a minimum cumulative grade point average (GPA) of 3.0 in twenty-four (24) credits of undergraduate study in an established discipline in the humanities, social sciences, or professional fields. Applicants with less than the minimum cumulative GPA of 3.0 in their undergraduate major but who otherwise show excellent promise of success may be **conditionally** admitted with the recommendations of the Department Admissions Committee and the Department Chair.

### Master of Arts Degree in Africana Women's Studies (30 Credits)

#### Program Objectives

1. To provide a comprehensive knowledge of concepts and theories related to gender, class and racial bias of Africana women.
2. Prepare graduates for diverse professions in education, research, government and civic services that require an understanding of the role of Africana women.

3. Equip educators with knowledge and sensitivity to the teachings and contributions of Africana women.
4. Prepare students for opportunities in continuing or advanced studies.

### **Student Learning Outcomes**

Students pursuing the **Master of Arts Degrees in Africana Women's Studies** will:

1. Demonstrate knowledge of Black feminist and womanist methodologies and utilize interdisciplinary research methods related specifically to Black women's lived experiences both nationally and globally.
2. Demonstrate expertise in the major works, theorists, arguments, and the central concern of Africana Women's Studies as an academic discipline.
3. Demonstrate proficiency in advanced feminist research skills utilizing appropriate methodologies to create an original research project with sound research questions, research design, and analysis.

### **AWS Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Master of Arts Degree in Africana Women's Studies** must complete a minimum of thirty (30) graduate credits. Students may select a thesis or a non-thesis option at the time of admission to the degree program. A written comprehensive examination is required. An oral defense of the thesis or non-thesis project is required.

#### **I. Required Courses: 9 Credits**

CAWS 611, Introduction to Africana Women's Studies (3)  
 CAWS 501, Feminist Theory (3) *or* CAWS 502, Africana Feminist Theory (3)  
 CAWS 503, Feminist Methodology (3)

#### **Approved Electives: 15 Credits**

CAWS 600, Seminar in Africana Women's Studies (3)  
 CAAS/CAWS/HIS XXX, Graduate Elective (3)  
 CAAS/CAWS/HIS XXX, Graduate Elective (3)  
 CAAS/CAWS/HIS XXX, Graduate Elective (3)  
 CAAS/CAWS/HIS XXX, Graduate Elective (3)

#### **II. Thesis Option or Non-Thesis Option: 6 Credits**

##### **Thesis Research: 6 Credits**

CAWS 602, Thesis Research (6)

*or*

##### **Capstone Courses: 6 Credits**

CAWS 652, Capstone I (3)  
 CAWS 653, Capstone II (3)

#### **III. Foreign Language Requirement**

\*All students in the School of Arts and Sciences must demonstrate reading proficiency in a foreign language. Students may test out of this requirement or take one of the following courses to fulfill the requirement. Credit hours earned in these courses do not count towards the 30 credits required for the MA degree.

CFLF 505, French for Graduate Students (3) *or*  
 CFLS 506, Spanish for Graduate Students (3)

### Plan of Study for the Master of Arts Degree in Africana Women's Studies (30 Credits)

Year One					
Fall Semester		Cr	Spring Semester		Cr
CAWS 611	Introduction to Africana Women's Studies	3	CAWS 503	Feminist Methodology	3
CAWS 501 <i>or</i> CAWS 502	Feminist Theory Africana Feminist Theory	3	CAWS 600 <i>or</i> CAAS/CAWS/CHIS XXX	Seminar in Africana Women's Studies Graduate Elective	3
CAAS/CAWS/CHIS XXX	Graduate Elective	3	CAAS/CAWS/CHIS XXX	Graduate Elective	3
<b>TOTAL</b>		<b>9</b>	<b>TOTAL</b>		<b>9</b>
Year Two					
Fall Semester		Cr	Spring Semester		Cr
CAAS/CAWS/CHIS XXX	Graduate Elective	3	CAAS/CAWS/CHIS XXX	Graduate Elective	3
CAWS 602 <i>or</i> CAWS 652*	Thesis Research <i>or</i> Capstone I	3	CAWS 602 <i>or</i> CAWS 653*	Thesis Research <i>or</i> Capstone II	3
<b>TOTAL</b>		<b>6</b>	<b>TOTAL</b>		<b>6</b>
* Students selecting the non-thesis option must complete both Capstone I & II courses.					

### Master of Arts Degree in History (30 Credits)

The **History** Program serves as a center for historical study, providing a core base of knowledge of past events and fostering an atmosphere to examine the significance of those events on the human experience. The **Master of Arts Degree in History** is designed to train students in historical methodology, research techniques and writing, and to impart historical knowledge with special emphasis on the United States, Africa, and African diasporic (including African American) communities. The program offers an outstanding opportunity for students seeking professional training in history and provides a learning environment featuring a quality faculty, intimate classes, and personal advisement which challenges and nurtures the aspiring student as a historian. Graduate students writing masters theses are strongly encouraged to utilize the rich primary source collection in the archives of the Robert W. Woodruff Library. The program prepares students for careers in academia, research, government service, and related professions. Students may concentrate in any combination of United States, Africa, and African American history. Moreover, graduate aid and internships are available for both financial support and direct experience.

### Admissions Requirements

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Arts Degree in History** must have completed at least four (4) courses in history or its equivalent, not including the social science general education requirements of the undergraduate institution with a minimum cumulative grade point average of 3.0. In special cases, students may be admitted conditionally and meet prerequisites by completing additional undergraduate or graduate courses or meeting other conditions approved by the Departmental Admissions Committee and the Department Chair. GRE Required.

## **Program Objectives**

1. Provide students with varying perspectives of cultures of the past, in reference to local, regional, national, and global geographic scope.
2. Identify the impact of past events and examine the significance of historical writings.
3. Articulate historians' contributions to historical knowledge and human experience.
4. Prepare students for advanced studies as well as careers in education, research, government and other professions.
5. Provide intersectional types of history such as topical, geographic, and temporal; and outline various aspects of multi-disciplinary historical approaches to the profession including feminist, cultural, and political.

## **Student Learning Outcomes**

### **Students pursuing the Master of Arts Degree in History will:**

1. Demonstrate knowledge of advanced historical research methods, and proficiency in historical argumentation, research, and historiography.
2. Demonstrate expertise in the major works, theorists, arguments, and the central concern of History as an academic discipline.
3. Demonstrate proficiency in advanced historical research skills utilizing appropriate methodology to create an original research project with sound research questions, research design, and analysis.

## **HIS Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Master of Arts Degree in History** must complete a minimum of thirty (30) graduate credits. A written comprehensive examination and thesis are required. An oral defense of the thesis is required.

### **I. Course Requirements: 24 Credits**

#### **Core Required Research Course**

CHIS 795, Advanced Historiography and Methodology (3)

#### **Select remaining courses in any combination of the following:**

CAAS 501, Africa and the African Diaspora (3)

CHIS 563, The African-American in the United States to 1877 (3)

CHIS 564, The African-American in the United States since 1877 (3)

CHIS 575, Intellectual and Cultural History of the United States (3)

CHIS 576, Social and Economic History of the United States (3)

CHIS 606, The Black Woman in American History (3)

CHIS 607, Community, Family, and Oral History (3)

CHIS 681, History of Africa since 1800 (3)

CHIS 682, Seminar in African History (3)

CHIS 780/781, History Internship I *or* II (3)

CAAS/CAWS/CHIS XXXX, Graduate Elective

### **II. Thesis Research: 6 Credits\***

CHIS 695, Thesis Research (6)

### **III. Foreign Language Requirement**

\*All students in the School of Arts and Sciences must demonstrate reading proficiency in a foreign language. Students may test out of this requirement or take one of the following courses to fulfill the requirement. Credit hours earned in these courses do not count towards the 30 credits required for the MA degree.

CFLF 505, French for Graduate Students (3) *or*

CFLS 506, Spanish for Graduate Students (3)

**Plan of Study for Master of Arts Degree in History (30 Credits)**

<b>Year One</b>					
<b>Fall Semester</b>		<b>Cr</b>	<b>Spring Semester</b>		<b>Cr</b>
CHIS 795	Advanced Historiography and Methodology	3	CAAS/CAWS/CHIS XXX	Graduate Elective	3
CAAS 501	Africa and the African Diaspora	3	CAAS/CAWS/CHIS XXX	Graduate Elective	3
CAAS/CAWS/CHIS XXX	Graduate Elective	3	CAAS/CAWS/CHIS XXX	Graduate Elective	3
<b>TOTAL</b>		<b>9</b>	<b>TOTAL</b>		<b>9</b>
<b>Year Two</b>					
<b>Fall Semester</b>		<b>Cr</b>	<b>Spring Semester</b>		<b>Cr</b>
CHIS 695*	Thesis Research	3	CHIS 695*	Thesis Research	3
CAAS/CAWS/CHIS XXX	Graduate Elective	3	CAAS/CAWS/CHIS XXX	Graduate Elective	3
<b>TOTAL</b>		<b>6</b>	<b>TOTAL</b>		<b>6</b>

*\*Students must complete a minimum of 6 Thesis Course Hours*

**DEPARTMENT OF English and Modern Languages**  
**Haven-Warren Hall, Room 100**  
**Telephone: (404) 880-8169**

### **Overview**

The Department of English and Modern Languages offers courses that satisfy the University's core requirements in English, French, Spanish, and the humanities and prepares graduate students for the Master of Arts Degrees in English, French, or Spanish. Courses for the M.A. in English include History of the English Language or linguistics along with a variety of literature courses, including British, American, Africana, African American, and ethnic American as well as special topics in the following: creative writing, seminars specific to authors, and synergetic courses. Courses for the M.A. in French include Advanced French Grammar and Composition, Advanced French Prose, History of French Civilization, Francophone Literature, Seminar in Comparative Black Literature. Courses for the M.A. in Spanish include Advanced Spanish Grammar and Composition, Advanced Spanish Prose, Afro- Hispanic Literature, Hispanic Minorities in the United States, Seminar in Comparative Black Literature, The Twentieth Century Latin American Novel.

The Department of English and Modern Languages graduate students may also earn a Doctor of Philosophy in Humanities with a concentration in English, French, or Spanish. Furthermore, the Department of English and Modern Languages, in support of traditional liberal arts education, offers graduate degrees in French and Spanish with a focus in language and literature. The faculty engages in developing students' communicative abilities in their chosen language of study and promotes an understanding of and appreciation for other cultures through the study of language, linguistics, civilization, literature, and cultural expressions.

In addition, the Department of English and Modern Languages sponsors extracurricular activities and organizations that enhance the cultural and academic climate of Clark Atlanta University and the Atlanta community. Among them is the Annual Writers Workshop, a conference that includes a writing competition among the University students as well as the larger Atlanta University Center community. Clark Atlanta University is the home of the Charles Waddell Chesnut Association (an affiliate of the American Literature Association), a venue to which outstanding graduate students may gain membership and submit papers for inclusion in sessions at the annual international American Literature Conference. Graduate students may also be selected for membership in the English department's Alpha Beta Beta Chapter of the Sigma Tau Delta International English Honor Society as well as the Honor Society of Phi Kappa Phi. Our graduate students are offered the opportunity to teach English composition and/or world literature courses once they have earned an M.A. in English or 18 graduate credit hours in English at the Ph.D. level.

### **Mission**

The mission of the Department of English and Modern Languages is to prepare students to transform intellectually, culturally, and professionally through innovative methods of teaching and learning that enhance their abilities in writing, literary appreciation and analysis, and research. Additionally, the mission of the Department of English and Modern Languages is to prepare and expose language majors and non-majors to the languages and cultures of different societies and to achieve functional proficiency and

communicative competency in the target language—Spanish and French—through immersion and varied enrichment experiences

### **Vision**

The vision of the Department of English and Modern Languages is to chart a course for English students to engage globally in a variety of professions, including teaching, research, and related technology, all of which are underpinned by expertise in English skills.

### **Program of Study**

Master of Arts Degree in English (33 Credits)

### **Program Overview**

The Department of English and Modern Languages offers a varied and rich curriculum to graduate students. The department is particularly proud of its multicultural approach to teaching literature and its efforts to expand the curriculum to include Africana, Caribbean, Asian, and Native American literatures. Graduate students pursuing the **Master of Arts Degree in English** must take the standard British and American literature courses plus additional courses in African American and Africana literature and pass a foreign language examination and a sitting comprehensive examination in four areas of literature: American, African-American, British, and Africana. In addition, graduate students must write a thesis reflecting extensive research in a literary topic or linguistic field that relates to literature.

### **Admissions Requirements**

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Arts Degree in English** must have completed twenty-four (24) credits of undergraduate English courses above the sophomore level with a minimum grade point average (GPA) of 3.3.

### **Program Objectives**

1. Introduce various genres of literature written by American, African American, British and multi-ethnic/cultural authors.
2. Study of literature to describe the differences and commonalities of global cultures.
3. Prepare students for advanced studies as well as careers in education, research, creative writing, and other professions.
4. Complete a thesis on topics relating to American, African American, British, and/or ethnic literatures using literary criticism and theory to develop the work's thesis.
5. Ethnic literatures using literary criticism and theory to develop the work's thesis.

### **Student Learning Outcomes**

Students pursuing the **Master of Arts Degree in English** will be able to:

1. Apply literary theories from various cultures around the world for analytical, critical and scholarly articles and research papers.
2. Communicate effectively in written and oral formats essential works of literature by American, African American, British, and other multiethnic/cultural authors.
3. Utilize theory based literary texts to interpret short and long essays and analyze the commonalities and differences between and/or among multi-ethnic/cultural literatures.

4. Write annotated bibliographies and bibliographic essays using relevant scholarly articles and/or books published in various formats.
5. Apply theoretical knowledge from a literary and/or linguistic perspective to analyze and interpret texts and construct research papers, proposals and theses.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, candidates for the **Master of Arts Degree in English** must complete the following requirements:

#### **I. CORE COURSES: 9 Credits (Select Three)**

- CENG 502/602, Methods of Research (3)
- CENG 581/681, History of the English Language (3)
- CENG 560/660, Literary Theory and Criticism (3)

#### **AMERICAN LITERATURE: 6 Credits** (at least two courses)

- CENG 510/610, Early American Literature (3)
- CENG 511/611, American Poetry and Poetics (3)
- CENG 512/612, American Renaissance (3)
- CENG 513/613, American Realism and Naturalism (3)
- CENG 514/614, The American Novel (3)
- CENG 515/615, Contemporary American Literature (3)
- CENG 516/616, Modern American Drama (3)

#### **AFRICAN AMERICAN LITERATURE/AFRICAN AND CARIBBEAN LITERATURES: 6 Credits** (at least two courses)

- CENG 520/620, Ideas and Forms in African American Literature (3)
- CENG 521/621, African American Poetry (3)
- CENG 522/622, African American Novel (3)
- CENG 523/623, Poetry of the Harlem Renaissance (3)
- CENG 524/624, African American Folklore (3)
- CENG 530/630, The African Novel (3)
- CENG 531/631, African Poetry in English (3)
- CENG 532/632, African Cultural Traditions (3)
- CENG 533/633, Caribbean Short Fiction and Novel (3)
- CENG 534/634, Caribbean Poetry (3)
- CENG 535/635, Studies in Commonwealth Literature (3)

#### **BRITISH LITERATURE: 6 Credits** (at least two courses)

- CENG 540/640, Early English Novel (3)
- CENG 541/641, Later English Novel (3)
- CENG 542/642, Contemporary English Literature (3)
- CENG 543/643, Victorian Poetry (3)
- CENG 544/644, Shakespeare I: The Early Plays (3)
- CENG 545/645, Shakespeare II: The Later Plays (3)
- CENG 546/646, Modern British Drama (3)
- CENG 547/647, Renaissance Literature (3)



CENG 548/648, The Enlightenment (3)  
 CENG 549/649, Literature of the Romantics (3)

**ELECTIVE COURSES: 3 Credits** (one course)

*Any of the above or below listed courses may be used for electives.*

CENG 590/690, Contemporary African Women’s Fiction (3)  
 CENG 591/691, Caribbean Women Writers (3)  
 CENG 592/692, Ethnic American Women Writers (3)  
 CENG 593/693, Southern Women Writers (3)  
 CENG 560/660, Special Topics in Writing (3)\*  
 CENG 570/670, Special Topics in Literature (3)\*  
 CENG 580/680, Directed Research (3)  
 CENG 752, Major Authors (3)

**\*Content Varies. Course may be repeated for credit.**

**II. Qualifying Examination**

Students will take sitting comprehensive exams during final semester of coursework.

**III. Thesis Research: 3 Credits**

Students must submit an acceptable thesis in the form of a scholarly presentation of a research problem. Three (3) credits will be awarded for completing the thesis requirement. The thesis topic must be approved by the student's major advisor/chair and members of the thesis committee.\*

**Plan of Study for Master of Arts Degree in English (33 Credits)**

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CENG XXX	African American Literature	3	CENG 502	Methods of Research	3
CENG 581	History of the English Language	3	CENG XXX	American Literature	3
CENG 560	Literary Theory and Criticism	3	CENG XXX	British Literature	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CENG XXX	African American Literature	3			
CENG XXX	American Literature	3	CENG XXX	ELECTIVE	3
CENG XXX	British Literature	3	CENG XXX	Thesis Research	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>6</b>

## **Program of Study**

### **Master of Arts Degree in French (30 Credits)**

#### **Program Overview**

Students in the Master of Arts Degrees in French or Spanish pursue the goals of speaking, reading, writing and listening, with emphasis on the traditional model of language, literature, culture and methodology. All students acquire superior reading and translation skills adequate for easy comprehension of scholarly articles in French or Spanish and have a thorough familiarity with major periods, authors and techniques of literary criticism.

#### **Admissions Requirements**

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Arts Degree in French** or **Spanish** must have completed an undergraduate major in the language of specialization. Most graduate courses in the Department are conducted in the target language. Applicants must be able to (1) understand the spoken language, (2) participate in class discussions, and (3) write papers in French or Spanish. If after beginning the degree program, a student's proficiency in these basic skills is so minimal that his/her classroom performance is seriously impaired, he/she will be asked to withdraw.

#### **Program Objectives**

1. Introduce students to study of a modern foreign language, linguistics, civilization, literature, and cultural expressions.
2. Provide advanced level of learning for mastery of nature, function and structure of language sounds, vocabulary, and syntax.
3. Assist student in developing superior reading, writing, and translation skills for comprehension, critique and communication of scholarly works in French.
4. Expose students to major body of works, periods, authors and techniques of literary criticism in French or Spanish cultures.
5. Prepare students for advanced studies, employment and careers that require French or Spanish as a second language.

#### **Student Learning Outcomes**

##### **Students pursuing the Master of Arts Degree in French will:**

1. Demonstrate proficiency in oral communication in French with native fluency.
2. Utilize appropriate language, vocabulary, and grammatical construct in written French or Spanish communication.
3. Analyze and interpret artistic, philosophical, social, and historical body of works to identify their significance to French culture.
4. Apply a wide range of literary and factual knowledge, techniques of literary criticism and interpretation of diverse cultural patterns in developing research-based thesis.

#### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Master of Arts Degree in French** must complete the following requirements:

**I. Core Courses: 12 Credits**

- CFRE 513, Advanced French Grammar and Composition (3)
- CFRE 514, Advanced French Prose (3)
- CFRE 515, History of French Civilization I (3)
- CFRE 516, History of French Civilization II (3)

**Electives: 12 Credits**

- CFRE 509, Directed Readings in French I (3)
- CFRE 510, Directed Readings in French II (3)
- CFRE 511, French Phonetics and Pronunciation (3)
- CFRE 517, French Poetry (3)
- CFRE 518, French Prose (3)
- CFRE 519, French Drama (3)
- CFRE 615, French Colonial Civilization (3)
- CFRE 637, Francophone Literature I (3)
- CFRE 638, Francophone Literature II (3)
- CFRE 640, Seminar in Comparative Black Literature (3)

**II. Thesis Research: 6 Credits**

Students must submit an acceptable thesis in the form of a scholarly presentation of a research problem and present an oral defense of both the thesis proposal and the completed thesis. Six (6) credits will be awarded for completing the thesis requirement. The thesis topic must be approved by the student's major advisor/chair and members of the thesis committee.\*

**III. Qualifying Examination**

Students must pass a written examination in the major and minor fields of study and an oral defense of the written examination.

**IV. Final Examination**

Candidates must pass a final examination, which is the oral defense of the thesis.\*

\* Students may substitute six (6) credits of coursework in French for the master's thesis.

**Plans of Study for Master of Arts Degree in French (30 Credits)**

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CFRE 513	Advanced French Grammar and Composition	3	CFRE XXX	Elective	3
CFRE 514	Advanced French Prose	3	CFRE 516	History of French Civilization II	3
CFRE 515	History of French Civilization I	3	CFRE XXX	Elective	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CFRE XXX	Elective	3	CFRE 805 <i>or</i> CFRE 510 and CFRE 519	Thesis Research (6) <i>or</i> Directed Readings in French II (3) and French Drama (3)	6
CFRE XXX	Elective	3			
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>

## **Program of Study**

### **Master of Arts Degree in Spanish**

#### **Program Overview**

Students in the **Master of Arts Degrees in Spanish** pursue the goals of speaking, reading, writing and listening, with emphasis on the traditional model of language, literature, culture and methodology. All students acquire superior reading and translation skills adequate for easy comprehension of scholarly articles in French or Spanish and have a thorough familiarity with major periods, authors and techniques of literary criticism.

#### **Admissions Requirements**

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Arts Degree in Spanish** must have completed an undergraduate major in the language of specialization. Most graduate courses in the Department are conducted in the target language. Applicants must be able to (1) understand the spoken language, (2) participate in class discussions, and (3) write papers in Spanish. If after beginning the degree program, a student's proficiency in these basic skills is so minimal that his/her classroom performance is seriously impaired, he/she will be asked to withdraw

#### **Program Objectives**

1. Introduce students to study of a modern foreign language, linguistics, civilization, literature, and cultural expressions.
2. Provide advanced level of learning for mastery of nature, function and structure of language sounds, vocabulary, and syntax.
3. Assist student in developing superior reading, writing, and translation skills for comprehension, critique and communication of scholarly works in Spanish.
4. Expose students to major body of works, periods, authors and techniques of literary criticism in Spanish culture.
5. Prepare students for advanced studies, employment and careers that require French or Spanish as a second language.

#### **Student Learning Outcomes**

Students pursuing the **Master of Arts Degree in Spanish** will:

1. Demonstrate proficiency in oral communication in Spanish with native fluency.
2. Utilize appropriate language, vocabulary, and grammatical construct in written Spanish communication.
3. Analyze and interpret artistic, philosophical, social, and historical body of works to identify their significance to Spanish cultures.
4. Apply a wide range of literary and factual knowledge, techniques of literary criticism and interpretation of diverse cultural patterns in developing research-based thesis.

Students must complete the following requirements:

##### **I. Core Courses: 12 Credits**

CSPA 513, Advanced Spanish Grammar and Composition (3)

CSPA 514, Advanced Spanish Prose (3)

CSPA 515, History of Peninsular Civilization (3)

CSPA 516, History of Latin American Civilization) (3)

**Electives: 12 Credits**

- CSPA 509, Directed Readings in Spanish I (3)
- CSPA 510, Directed Readings in Spanish II (3)
- CSPA 511, Spanish Phonetics and Pronunciation (3)
- CSPA 517, Spanish Poetry (3)
- CSPA 620, Afro-Hispanic Literature (3)
- CSPA 622, Galdós, The Generation of 1868 and Naturalism (3)
- CSPA 623, The Generation of 1898 (3)
- CSPA 625, The Twentieth Century Latin American Novel (3)
- CSPA 628, Hispanic Minorities in the United States (3)
- CSPA 640, Seminar in Comparative Black Literature (3)

**II. Thesis Research: 6 Credits**

Students must submit an acceptable thesis in the form of a scholarly presentation of a research problem and present an oral defense of both the thesis proposal and the completed thesis. Six (6) credits will awarded for completing the thesis requirement. The thesis topic must be approved by the student's major advisor/chair and members of the thesis committee.\*

**III. Qualifying Examination**

Students must pass a written examination in the major and minor fields of study and an oral defense of the written examination.

**IV. Final Examination**

Candidates must pass a final examination, which is the oral defense of the thesis.\*

\* Students may substitute six (6) graduate credits of coursework in Spanish for the master's thesis.

**Plans of Study for Master of Arts Degree in Spanish (30 Credits)**

<b>Year One</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CSPA 513	Advanced Spanish Grammar and Composition	3	CSPA 516	History of Latin American Civilization	3
CSPA 514	Advanced Spanish Prose	3	CSPA XXX	Elective	3
CSPA 515	History of Peninsular Civilization	3	CSPA XXX	Elective	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<b>Year Two</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CSPA XXX	Elective	3	CSPA 805 <i>or</i> CSPA 510 and CSPA 625	Thesis Research (6) <i>or</i> Directed Readings in Spanish II (3) and The Twentieth Century Latin American Novel (3)	6
CSPA XXX	Elective	3			
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>

# Doctor of Philosophy Degree in Humanities Interdisciplinary Program

## HUMANITIES INTERDISCIPLINARY PROGRAM

### Program Director

Sage-Bacote Hall, Room 204

Telephone: (404) 880-8153

### Overview

The **Doctor of Philosophy Degree in Humanities** is an interdisciplinary, terminal degree program. This program allows graduate students the opportunity to have primary concentrations in a variety of disciplines: African American Studies, Africana Women's Studies, English and History. The program also allows secondary concentrations in one of the primary concentrations, as well as in the field of Public Administration, Sociology or Political Science, to enrich students' learning experience and to expand their professional expertise. Working with participating academic departments, such as African-American Studies/Africana Women's Studies/History (AWH), English and Modern Languages, and others in social sciences, the program aims to prepare teachers, scholars and researchers for future careers in higher education teaching, research, and other opportunities where the concern for humanity is paramount. The primary objective of this degree program is to offer graduate students an interdisciplinary course of study that provides opportunities to study and research in the fields of literature, history and Africana studies. Such an undertaking will foster visionary, informed, culturally sensitive and socially responsible scholarship.

This program is dedicated to promoting the core values of the University and offers many opportunities for students to contribute to the program's curricular and non-curricular activities. Among such contributions are organizing conferences, participating in public programming, publishing newsletters, and conducting scholarly research for grants and publications. The program is also dedicated to the values of consilience (bringing together principles of various disciplines) for the purpose of enhancing the study of humanities.

Candidates for the **Doctor of Philosophy Degree in Humanities** will complete beyond the master's degree up to seventy-two (72) credit hours of research and coursework in interdisciplinary humanities and appropriate concentrations, an internship, and a doctoral dissertation that makes original contribution to knowledge.

### Mission

The mission of the **Doctor of Philosophy in Humanities** Program is to prepare doctoral students, through an interdisciplinary program, to serve as humanistic scholars, researchers and educators with a focus on leadership and service to humanity.

## **Vision**

The vision of the **Doctor of Philosophy in Humanities** Program is to establish a department to promote interdisciplinary, innovative and research-based content delivery and learning in the field of humanities.

## **Program of Study**

### **Doctor of Philosophy Degree in Humanities (72 Credits)**

The Ph.D. in Humanities curriculum provides two tracks: (1) Humanities with a single-subject concentration;

(2) Humanities with a double-subject concentration. Both tracks permit students to select a preferred program of study that supports their individual career goals.

The program of study comprises the Interdisciplinary Humanities Core Requirements and the following Concentrations:

- African American Studies
- Africana Women's Studies
- English
- History

These subject areas may serve as a primary concentration or a secondary concentration. Other approved subject areas can serve as a secondary concentration.

## **Program Objectives**

1. Train students who will become teachers and scholars knowledgeable in humanistic inquiry.
2. Provide opportunities for students to further develop their skills as critical thinkers and research scholars with the knowledge and understanding of concepts and theories of the humanities disciplines.
3. Provide opportunities for students to investigate interdisciplinary ideas in the humanities, including their exemplars.
4. Further develop students' knowledge and skills to conduct research in specific disciplines in the humanities.

## **Student Learning Outcomes**

Students in Doctor of Philosophy Degree in Humanities who have completed coursework and have fulfilled all the requirements of the program will be able to:

1. Apply methodologies of humanistic inquiry to address current societal issues.
2. Develop a rational philosophy of teaching and pedagogy to be utilized in and outside the classroom environment.

3. Analyze and interpret the cultural production of past and contemporary humanist scholars and artists and their contributions to society.
4. Engage in interdisciplinary research that addresses human concerns and their solutions.

### **Admissions Requirements**

Applicants to the Doctor of Philosophy Degree in Humanities must complete the General Admissions Requirements as published in this Catalog.

### **Degree Requirements**

Candidates for the **Doctor of Philosophy Degree in Humanities** will complete up to seventy-two (72) graduate credits in interdisciplinary humanities and an appropriate concentration or concentrations, including the dissertation in residence. The general requirements for the degree include:

#### **I. Humanities Requirements: 36 Credits**

##### **Humanities Core and Pedagogy Courses: 21 Credits**

CHUM 875, Humanistic Inquiry (3)

CHUM 876, The Person in History and Literature (3)

CHUM 877, Literature and Popular Culture (3)

CHUM 878, Ideas and Exemplars (3)

CHUM 879, Interdisciplinary Seminar (Ethics & Social Philosophy) (3)

CHUM 880, Special Topics (Contemporary Issues in Humanities) (3)

CHUM 883, Science and the Humanities (3)

##### **Pedagogy Component: 6 Credits**

CHUM 881, Teaching and the Humanities (3)

CHUM 882, Internship in Teaching (3)

##### **Humanities Electives: 3 Credits (Select one (1) from the following)**

CHUM 885, Digital Humanities (3)

CHUM 886, Directed Research (3)

CHUM 888, A Review of the Humanities (3)

##### **Research Methodology and Design: 6 Credits**

CHUM 891, Research Methods (3)

CHUM 892, Research Design (3)

#### **II. Courses in the Concentration: 30 Credits\*\***

Choose one (1) of the following for a primary concentration or select two (2) for a double-subject concentration (primary and secondary):

1. African American Studies
2. Africana Women's Studies
3. English
4. History

**\*\*Includes Concentration Dissertation Research course (3 credits).**

\*Other subject areas that can be used for a secondary concentration include political science public administration or sociology

#### **III. Dissertation Consultation and Research: 6 Credits**



Required for the completion of the **Doctor of Philosophy Degree in Humanities**. Also fulfills Dissertation Research requirements in Humanities discipline and the concentration(s). *Select **two** (2) dissertation courses in Humanities **or** one (1) in Humanities **and** one (1) in primary concentration.*

CHUM 901, Dissertation Consultation (1)\*

CHUM 905, Dissertation Research (3-6)

**OR**

CHUM 905, Dissertation Research (3)

CXXX XXX, Concentration Dissertation Research (3)

\*Students may need to take CHUM 901 Dissertation Consultation (1 credit) depending on progress toward dissertation research.

#### **IV. Qualifying Examination**

Comprehensive examinations in Humanities discipline and the concentration(s) must be taken upon completion of all required coursework.

#### **Doctor of Philosophy Degree in Humanities: African-American Studies Concentration (30 Credits)**

##### **Student Learning Outcomes**

Graduates of the **Doctor of Philosophy Degree in Humanities: African-American Studies Concentration** will:

1. Apply integrated concepts and theories of Humanities and African, African American people and African diaspora cultures to construct a research-based dissertation.
2. Assess historical and contemporary body of works of African Americans and people of African descent through humanistic inquiry.
3. Interpret and communicate effectively in oral and written formats the humanistic influences of African Americans and people of African descent.

#### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, candidates pursuing **African American Studies Concentration** are required to complete **thirty (30)** credits in the following coursework:

#### **I. Required Courses: 30 Credits**

##### **Research Courses: 6 Credits**

CAAS 501, Africa and the African Diaspora (3)

CAAS 710, Pro-Seminar in Africana Studies (3)

##### **Concentration Courses: 18 Credits**

CAAS 630, Seminar in Selected African Americans (3)

CHIS 680, History of Africa to 1800 (3) **or**

CHIS 681, History of Africa since 1800 (3)

CAAS XXX, Graduate Elective I (3)

CAAS XXX, Graduate Elective II (3)

CAAS XXX, Graduate Elective III (3)

CAAS XXX, Graduate Elective IV (3)

##### **Cognate Courses: 6 Credits\***

CXXX XXX, Cognate Course I (3)

CXXX XXX, Cognate Course II (3)

**\*Select two (2) graduate cognate courses in the concentration of choice (e.g. African Women's Studies, English, History, Political Science, or Sociology)**

**Plan of Study for Doctor of Philosophy Degree in Humanities: African American Studies Concentration (72 Credits)**

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CHUM 875	Humanistic Inquiry	3	CHUM 876	The Person in History and Literature	3
CHUM 877	Literature and Popular Culture	3	CHUM 878	Ideas and Exemplars	3
CAAS 501	Africa and the African Diaspora	3	CHIS 680 <i>or</i> CHIS 681	History of Africa to 1800 <i>or</i> History of Africa since 1800	3
CAAS 710	Pro-Seminar in Africana Studies	3	CXXX XXX	Cognate Course I	3
	<b>TOTAL</b>	<b>12</b>		<b>TOTAL</b>	<b>12</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CHUM 879	Interdisciplinary Seminar: Ethics & Social Philosophy	3	CHUM 883	Science and the Humanities	3
CHUM 891	Research Methods in Humanities	3	CHUM 892	Research Design in Humanities	3
CAAS XXX	Concentration Elective I	3	CAAS 630	Seminar in Selected African Americans	3
CXXX XXX	Cognate Course II	3	CAAS XXX	Concentration Elective II	3
	<b>TOTAL</b>	<b>12</b>		<b>TOTAL</b>	<b>12</b>
Year Three					
	Fall Semester	Cr		Spring Semester	Cr
CHUM 880	Special Topics: Contemporary Issues in Humanities	3	CHUM 882	Internship in Teaching	3
CHUM 881	Teaching and the Humanities	3	CHUM XXX	Humanities Elective	3
CAAS XXX	Concentration Elective III	3	CHUM XXX	Dissertation Research	3
CAAS XXX	Concentration Elective IV	3	CAAS XXX	Dissertation Research	3
	<b>TOTAL</b>	<b>12</b>		<b>TOTAL</b>	<b>12</b>

**Doctor of Philosophy Degree in Humanities: Africana Women's Studies Concentration (30 Credits)**

**Student Learning Outcomes**

Graduates of the **Doctor of Philosophy Degree in Humanities: Africana Women's Studies Concentration** will:

1. Apply integrated concepts and theories of Humanities and Afrocentricity, Afrocentric historiography, and the history of African people with emphasis on women nationally and globally to construct a research-based dissertation.
2. Assess historical and contemporary body of works on the lives of all women, with special emphasis on Women of color, by class, age, and geographic location through humanistic inquiry.
3. Discuss the humanistic role of women and identify issues specific to African Diaspora cultures.
4. Interpret and communicate effectively in oral and written formats the humanistic influences related to the issues, strategies and contributions of Africana women.

**Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, candidates pursuing **Africana Women's Studies Concentration** are required to complete **thirty (30)** credits in the following coursework:

**I. Required Courses: 30 Credits**

**Research Courses: 6 Credits**

CAWS 501, Feminist Theory (3)

CAWS 503, Feminist Methodology (3)

**Concentration Courses: 18 Credits**

CAWS 506, Women and Development (3)

CAWS 600, Seminar in Africana Women’s Studies (3)

CAWS 611, Introduction to Women’s Studies (3)

CAWS XXX, Departmental Course I (3)

CAWS XXX, Departmental Course II (3)

CAWS XXX, Departmental Course III (3)

**Cognate Courses: 6 Credits\***

CXXX XXX, Cognate Course I (3)

CXXX XXX, Cognate Course II (3)

**\*Select two (2) graduate cognate courses in the concentration of choice (e.g. African American Studies, English, History, Political Science, or Sociology)**

**Plan of Study for Doctor of Philosophy Degree in Humanities: Africana Women’s Studies Concentration (72 Credits)**

Year One						
Fall Semester			Cr	Spring Semester		
CHUM 875	Humanistic Inquiry	3	CHUM 876	The Person in History and Literature	3	
CHUM 877	Literature and Popular Culture	3	CHUM 878	Ideas and Exemplars	3	
CAWS 501	Feminist Theory	3	CAWS 506	Women and Development	3	
CAWS 503	Feminist Methodology	3	CAWS 611	Introduction to Women’s Studies	3	
<b>TOTAL</b>			<b>12</b>	<b>TOTAL</b>		
<b>12</b>						
Year Two						
Fall Semester			Cr	Spring Semester		
CHUM 879	Interdisciplinary Seminar: Ethics & Social Philosophy	3	CHUM 883	Science and the Humanities	3	
CHUM 891	Research Methods in Humanities	3	CHUM 892	Research Design in Humanities	3	
CAWS XXX	Departmental Course I	3	CAWS XXX	Departmental Course II	3	
CXXX XXX	Cognate Course I	3	CXXX XXX	Cognate Course II	3	
<b>TOTAL</b>			<b>12</b>	<b>TOTAL</b>		
<b>12</b>						
Year Three						
Fall Semester			Cr	Spring Semester		
CHUM 880	Special Topics: Contemporary Issues in Humanities	3	CHUM 882	Internship in Teaching	3	
CHUM 881	Teaching and the Humanities	3	CHUM XXX	Humanities Elective	3	
CAWS 600	Seminar in Africana Women’s Studies	3	CHUM XXX	Dissertation Research	3	
CAWS XXX	Departmental Course III	3	CAWS XXX	Dissertation Research	3	
<b>TOTAL</b>			<b>12</b>	<b>TOTAL</b>		
<b>12</b>						

**Doctor of Philosophy Degree in Humanities: History Concentration (30 Credits)**

**Student Learning Outcomes**

Students pursuing the **Doctor of Philosophy Degree in Humanities: History Concentration** will:

1. Assess the impact of historical and contemporary body of works and append the multiple facets of causation through humanistic inquiry.

2. Interpret and communicate effectively in oral and written formats the value of historical data based on its context, credibility, authority, and bias.
3. Discuss and critique the humanistic influence of major history scholars within historical schools.
4. Apply integrated concepts and theories of humanities and historical principles and strategies to construct a research-based dissertation.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, candidates pursuing the **Doctor of Philosophy Degree in Humanities: History Concentration**, are required to complete **thirty (30)** credits in the following coursework:

#### **I. Required Courses: 30 Credits**

##### **Historical Methodology and Research Courses: 6 Credits**

CHIS 682, Seminar in African History (3)

CHIS 895, Advanced Graduate Course in Historiography and Methodology (3)

##### **Areas of Study in History: 24 Credits**

*Students may select courses from the following areas of study in history in any combination.*

##### **1. United States History**

CHIS 550, U.S. Constitutional History and the Law to 1877 (3)

CHIS 551, U.S. Constitutional History and the Law since 1877 (3)

CHIS 575, Intellectual and Cultural History of the United States (3)

CHIS 576, Social and Economic History of the United States (3)

CHIS 789, United States History Post 1945 (3)

##### **2. African-American History\***

CHIS 563, The African American in the United States to 1877 (3)

CHIS 564, The African American in the United States Since 1877 (3)

CHIS 566, Contemporary African American History (3)

CHIS 602, Black Metropolis (3)

CHIS 767, The Modern Civil Rights Movement (3)

CHIS 777, The Atlantic World (3)

*\*Students with no previous graduate level African American history courses are required to complete **three (3)** credits in this area.*

##### **3. African History**

CHIS 607, Community, Family, and Oral History (3)

CHIS 680, History of Africa to 1800 (3)

CHIS 681, History of Africa since 1800 (3)

#### **Plan of Study for Doctor of Philosophy Degree in Humanities: History Concentration (72 Credits)**

<b>Year One</b>					
<b>Fall Semester</b>			<b>Spring Semester</b>		
		<b>Cr</b>			<b>Cr</b>
CHUM 875	Humanistic Inquiry	3	CHUM 876	The Person in History and Literature	3
CHUM 877	Literature and Popular Culture	3	CHUM 878	Ideas and Exemplars	3
CHIS XXX	Area of Study in History Course I	3	CHIS XXX	Area of Study in History Course III	3
CHIS XXX	Area of Study in History Course II	3	CHIS XXX	Area of Study in History Course IV	3
		<b>TOTAL</b>			<b>TOTAL</b>
		<b>12</b>			<b>12</b>
<b>Year Two</b>					

	Fall Semester	Cr		Spring Semester	Cr
CHUM 879	Interdisciplinary Seminar: Ethics & Social Philosophy	3	CHUM 883	Science and the Humanities	3
CHUM 891	Research Methods in Humanities	3	CHUM 892	Research Design in Humanities	3
CHIS XXX	Area of Study in History Course V	3	CHIS XXX	Area of Study in History Course VI	3
CHIS 682	Seminar in African History	3	CHIS 895	Advanced Graduate Course in Historiography and Methodology	3
	<b>TOTAL</b>	<b>12</b>		<b>TOTAL</b>	<b>12</b>
Year Three					
	Fall Semester	Cr		Spring Semester	Cr
CHUM 880	Special Topics: Contemporary Issues in Humanities	3	CHUM 882	Internship in Teaching	3
CHUM 881	Teaching and the Humanities	3	CHUM XXX	Humanities Elective	3
CHIS XXX	Area of Study in History Course VII	3	CHUM XXX	Dissertation Research	3
CHIS XXX	Area of Study in History Course VIII	3	CHIS XXX	Dissertation Research	3
	<b>TOTAL</b>	<b>12</b>		<b>TOTAL</b>	<b>12</b>

### Doctor of Philosophy Degree in Humanities: English Concentration (30 Credits)

#### Student Learning Outcomes

Students pursuing the **Doctor of Philosophy Degree in Humanities: English Concentration** will:

1. Analyze and effectively communicate in written and oral formats essential works of literature by American, African American, British, and other multiethnic/cultural authors.
2. Discuss and critique the influence of humanistic theories on literary or linguistic perspectives and scholarly work.
3. Apply integrated concepts and theories of humanities and English literature to construct a research-based dissertation.

#### Degree Requirements

In addition to the General Degree Requirements as published in this Catalog, candidates pursuing the **Doctor of Philosophy Degree in Humanities: English Concentration**, are required to complete **thirty (30)** credits in the following coursework. Students must complete **twenty-four (24) credits in English** including eighteen (18) credits composed of three (3) credits **each** from the six (6) **Areas of Study in English** listed below. Additionally, students may elect any of the two graduate courses listed for the Department of English. Students who have not completed sufficient graduate study in Literary Criticism must complete CENG 560, Literary Theory and Criticism.

#### I. Required Courses: 30 Credits

##### Core Courses: 6 Credits

CENG 509, Genres of Literary Expression (3)

CENG 516, Major Authors (3)

##### Areas of Study in English: 18 Credits

*Select at least one course from each of the following areas of study:*

#### 1. African and Caribbean Literature: 3 Credits

CENG 530, The African Novel (3)

CENG 531, African Poetry in English (3)

CENG 532, Africana Critical Traditions (3)

CENG 533, The Caribbean Novel (3)

CENG 534, Caribbean Poetry (3)

**2. African American Literature: 3 Credits**

CENG 520, Ideas and Forms in African-American Literature (3)  
CENG 521, African-American Poetry, From Dunbar to the Present (3)  
CENG 522, The African-American Novel (3)  
CENG 523, Poetry of the Harlem Renaissance (3)  
CENG 524, Comparative Black Literature (3)

**3. American Literature: 3 Credits**

CENG 510, Early American Literature (3)  
CENG 511, American Poetry (3)  
CENG 512, American Romantics (3)  
CENG 513, American Realism and Naturalism (3)  
CENG 514, The American Novel (3)  
CENG 515, Contemporary American Literature (3)

**4. British Literature: 3 Credits**

CENG 540, The English Novel (3)  
CENG 541, Victorian Poetry (3)  
CENG 542, Literature of the Romantics (3)  
CENG 543, Drama of the Renaissance (3)  
CENG 544, Shakespeare (3)  
CENG 546, The Renaissance (3)  
CENG 547, The Enlightenment (3)  
CENG 548, Modern Drama (3)

**5. Women's Literature: 3 Credits**

CENG 590, Contemporary African Women's Fiction (3)  
CENG 592, Caribbean Women Writers (3)  
CENG 593, Ethnic American Women Writers (3)  
CENG 594, Southern Women Writers (3)

**6. Language and Linguistics: 3 Credits**

CENG 580, Modern Linguistics (3)  
CENG 581, History of the English Language (3)  
CENG 582, African-American Dialects (3)

**Elective Courses in English: 6 Credits**

CENG XXX, Graduate Elective in English (3)  
CENG XXX, Graduate Elective in English (3)

**Plan of Study for Doctor of Philosophy Degree in Humanities: English Concentration (72 Credits)**

**Year One**

	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CHUM 875	Humanistic Inquiry	3	CHUM 876	The Person in History and Literature	3
CHUM 877	Literature and Popular Culture	3	CHUM 878	Ideas and Exemplars	3
CENG 509	Genres of Literary Expression	3	CENG XXX	Area of Study in English Course I	3
CENG 516	Major Authors	3	CENG XXX	Area of Study in English Course II	3
	<b>TOTAL</b>	<b>12</b>		<b>TOTAL</b>	<b>12</b>
<b>Year Two</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CHUM 879	Interdisciplinary Seminar: Ethics & Social Philosophy	3	CHUM 883	Science and the Humanities	3
CHUM 891	Research Methods in Humanities	3	CHUM 892	Research Design in Humanities	3
CENG XXX	Area of Study in English Course III	3	CENG XXX	Area of Study in English Course V	3
CENG XXX	Area of Study in English Course IV	3	CENG XXX	Area of Study in English Course VI	3
	<b>TOTAL</b>	<b>12</b>		<b>TOTAL</b>	<b>12</b>
<b>Year Three</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CHUM 880	Special Topics: Contemporary Issues in Humanities	3	CHUM 882	Internship in Teaching	3
CHUM 881	Teaching and the Humanities	3	CHUM XXX	Humanities Elective	3
CENG XXX	English Elective	3	CHUM XXX	Dissertation Research	3
CENG XXX	English Elective	3	CENG XXX	Dissertation Research	3
	<b>TOTAL</b>	<b>12</b>		<b>TOTAL</b>	<b>12</b>

## **Division of Natural Sciences and Mathematics**

The Division of Natural and Mathematical Sciences offers graduate instructional programs for students interested in science careers with opportunities for rigorous learning and research experiences through the Departments of Biological Sciences, Chemistry, Computer and Information Science, Mathematics, and Physics. The Division also offers five-year accelerated BS/MS degree programs in Biology, Chemistry, Computer and Information Science, Mathematics and Physics and provides interdisciplinary and interdepartmental major sequences to students with potential for a strong science curriculum.

Graduate degree programs in Natural and Mathematical Sciences are designed to develop students' capacities for scientific and analytical work and to ensure that all majors are well prepared for their chosen career fields. Descriptions of these programs are provided under the respective departmental headings. Several scholarships are available for programs within the Division.

### **DEPARTMENT OF BIOLOGICAL SCIENCES**

**Thomas W. Cole, Jr., Research Center for Science and Technology, Suite 4005**

**Telephone: (404) 880-6790**

#### **Overview**

The Department of Biological Sciences provides graduate training for the **Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) Degrees in Biological Sciences**. The programs of study primarily focus on contemporary concepts in cell biology, molecular biology, and biochemistry. Both in-depth theoretical knowledge and methodological tools in each of these areas equip students for scholarly and productive endeavors. The University grants degrees based on intellectual and technical development commensurate with the achievement standards of the scientific community, rather than on mere accumulation of course credits. The main goal of the Department is to sustain our excellence in research and graduate training, as well as to provide outstanding professional teaching. The faculty facilitates each student's success through thorough intellectual and research training in a nurturing environment.

#### **Mission**

The mission of the Department of Biological Sciences is to assist undergraduate and graduate students in the study of life sciences by providing a research environment that focuses on scientific reasoning, critical inquiry, problem solving, and the development of research skills that prepare graduates to be competitive in our global society.

#### **Vision**

The vision of the Department of Biological Sciences is to be recognized as a premier undergraduate, graduate, and research-centered department, among the research-intensive institutions in the nation, whose graduates will be excellent scholars, researchers, and practitioners through productive scientific and professional health careers.

#### **Programs of Study**

Master of Science Degree in Biological Sciences (32 Credits)



Doctor of Philosophy Degree in Biological Sciences (72 Credits)

## **Master of Science Degree in Biological Sciences (32 Credits)**

### **Program Overview**

The Master of Science Degree program provides specialized training, research experiences, and the optional opportunity for students to gain teaching experiences. All students in the program are required to complete a **minimum of thirty-one (31)** credits. Research by Master's students centers on topics in cell biology, molecular biology, biochemistry, microbiology, and neurobiology. Other areas of specialized training are available through collaborations with other institutions and government agencies.

### **Admissions Requirements**

Applicants to the **Master of Science Degree in Biological Sciences** must meet the General Admissions Requirements as published in this Catalog and have completed a **minimum of twenty-four (24)** undergraduate credits in Biology including biochemistry and one year each in general chemistry, organic chemistry, physics, and mathematics, including calculus.

### **Program Objectives**

- Introduce student to multidisciplinary aspects of modern biological sciences.
- Prepare student to examine, write, and present scientific literature.
- Prepare students for advanced studies, professional careers in biological and biomedical fields, or other scholarly endeavors.

### **Student Learning Outcomes**

Students pursuing the **Master of Science Degree in Biological Sciences** will:

1. Apply biological concepts, theories, and techniques to conduct independent scientific experiments.
2. Effectively communicate information on biological and/or biomedical science in written and oral formats to scientific and non-scientific audiences.
3. Apply biological principles and analytical techniques to execute an original research project through hypothesis development, experimental design, and analytical interpretation of the data.
4. Practice professional ethics in the conduct of scientific inquiry, scholarly research, and independent scientific thinking.

### **Degree Requirements (31 Credits)**

In addition to the General Degree Requirements as published in this Catalog, candidates for the **Master of Science Degree in Biological Sciences** must complete the following requirements:

#### **I. Core Courses: 18 Credits**

CBIO 501, Biology Seminar (0)\*

CBIO 502, Instructional Practicum (0)

CBIO 504, Molecular Genetics (3)

CBIO 506, Cell Biology (3)

CBIO 509, Methods and Techniques in Biotechnology (3)

CBIO 511, Biochemistry I (3)

CBIO 512, Biochemistry II (3)

CBIO 551, Biostatistics (3)

**\*Students must enroll continuously in CBIO 501 till matriculation.**

### **Laboratory Rotation Requirements:**

During the first year of study, all students pursuing the **Master of Science Degree in Biological Sciences** are required to complete at least **two (2)** laboratory rotations (10 hours per week). Laboratory rotations provide graduate students with exposure to a variety of research projects and techniques conducted in faculty research training laboratories. The rotations will also give students opportunities to make a decision regarding the research laboratory in which they will conduct their thesis research.

### **Advanced Courses in the Area of Specialization: 6 Credits**

CBIO 556, Bioinformatics (3)

CBIO 633, Advances in Molecular Biology (3)

CBIO 635, Advances in Cell Biology (3)

CBIO 643, Advances in Cancer Biology (3)

### **Research in Biology: 6 Credits**

CBIO 661, Research in Biochemistry (3-9)

CBIO 671, Research in Molecular Biology (3-9)

CBIO 681, Research in Cellular Biology (3-9)

\*This course is required for M.S. students to present their dissertation/rotational research.

## **II. Thesis Research: 1 Credits**

CBIO 801, Thesis Research (1 Credit)

## **III. Final Examination**

Each student must successfully defend a thesis based on original research.

These are formal departmental requirements and as such must be scheduled during regular academic year or summer session. The following procedures are to be followed to complete these requirements:

1. The MS candidate should hold a formal meeting with his/her research committee to present a concise overview of finalized research data.
2. Upon approval by the committee, a final signed draft of the thesis should be submitted to the department chair.
3. A research seminar/oral defense is required. The candidate or the advisor should schedule the seminar/oral defense based on the Office of Graduate Programs thesis submission timeline.
4. The seminar/oral defense is scheduled as a formally announced departmental event. Biology faculty and graduate students are invited to attend and actively participate in the same as a scientific/intellectual interaction between the candidate and the attendees. The seminar/oral defense is to be professionally prepared with appropriate visual aids.
5. Announcement must be posted one week prior to the seminar/oral defense. The Department of Biological Sciences considers the opinion of the total faculty in attendance in arriving at a consensus on the scientific/professional caliber of the seminar. Serious concerns indicated by a consensus of the attending faculty may result in the candidate having to repeat this departmental requirement.
6. At the conclusion of the seminar/oral defense, the research advisor should ensure that the Seminar and Oral Presentation Approval Forms are completed and signed by all faculty

members in attendance including the Department Chair.

### Plan of Study for Master of Science Degree in Biology (31 Credits)

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CBIO 501*	Biology Seminar	0	CBIO 501*	Biology Seminar	0
CBIO 504	Molecular Genetics	3	CBIO 506	Cell Biology	3
CBIO 509	Research and Techniques in Biotechnology	3	CBIO 551	Biostatistics	3
CBIO 511 or CCHE 551	Protein Biochemistry/ Biochemistry I	3	CBIO 512 <i>or</i> CCHE 552	Intermediary Metabolism/ Biochemistry II	3
	<i>Laboratory Rotation I</i>			<i>Laboratory Rotation II</i>	
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
	<b>Summer</b>	<b>Cr</b>			
CBIO 6XX	Research in Biology	3			
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CBIO 501*	Biology Seminar	0	CBIO 502*	Biology Seminar II	0
			CBIO 556	Bioinformatics	3
CBIO XXX	Advanced Course in Biology	3	CBIO 801	Thesis Research	1
CBIO 6XX	Research in Biology	3			
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>4</b>

**\*Students must enroll continuously in CBIO 501 or CBIO 502, Biology Seminars I and II.**

\* All M.S. students must enroll and attend CBIO 501 Biology Seminars until matriculation.

\*\* This course is required for M.S. students to present their dissertation/rotational research.

### Doctor of Philosophy Degree in Biological Sciences (72 Credits)

#### Program Overview

The **Doctor of Philosophy (Ph.D.) Degree Program in Biological Sciences** trains and develops scholars, and promotes research by providing students with contemporary concepts in the fields of cellular biology, molecular biology, and biochemistry. Each student receives thorough intellectual training in a particular specialty and must master the methods that are requisite for productive scholarly endeavors in that specialty. Graduate students are primarily engaged in research, but also take courses in specialized areas of interest, participate in seminars, and have opportunities to gain teaching experience while satisfying other requirements of their doctoral programs. Students carry out their research in state-of-the-art laboratories supervised by the faculty. Some of the research faculty members participate in and are supported by federally funded research programs. The Department fosters and maintains collaborations at local, national academic, industrial, and governmental research facilities. These collaborations provide opportunities for doctoral students to expand their research specialty areas.

#### Admissions Requirements

Applicants to the **Doctor of Philosophy Degree in Biological Sciences** must meet the General Admissions Requirements as published in this Catalog. GRE Required.

#### Program Objectives

1. Emphasize the multidisciplinary aspects of modern biological sciences.

2. Promote the development of the skills required for scientific inquiry, writing and presentation.
3. Provide opportunities for students to gain academic teaching and research experiences that will prepare them for scholarly and productive endeavors.
4. Train scientists and scholars to perceive fundamental biological problems and to investigate them successfully.
5. Prepare Ph.D. level students for postdoctoral research or academic teaching positions in academic institutions and biotechnology or other industries.

### **Student Learning Outcomes**

Students pursuing the **Doctor of Philosophy Degree in Biological Sciences** will:

1. Conduct independent and collaborative research to prepare proposals for fellowship and funding, and scientific articles in peer-reviewed journals.
2. Communicate effectively biological information in written and oral formats to scientific and non-scientific audiences at professional conferences, workshops, seminars, and other academic venues.
3. Teach laboratory classes in introductory biology.
4. Practice professional ethical standards in the conduct of scientific experiment, inquiry, scholarly research and teaching.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, candidates for the **Doctor of Philosophy Degree in Biological Sciences** must complete a minimum of seventy-two (72) graduate credits in residence. Each student must pass a qualifying examination for admission to candidacy and defend a dissertation of original research conducted under the supervision of his/her major advisor and Dissertation Committee. As part of a comprehensive training program, each candidate for the **Doctor of Philosophy Degree in Biological Sciences** is required to serve as a Teaching Assistant in an undergraduate laboratory course for at least three (3) semesters under the supervision of a faculty member of record for the course.

#### **I. Required Courses**

##### **Core Courses: 18 Credits**

CBIO 501, Biology Seminar (0)\*

CBIO 502, Biology Seminar II/ Instructional Practicum II (0)\*\*

CBIO 504, Molecular Genetics (3)

CBIO 506, Cell Biology (3)

CBIO 509, Research and Techniques in Biotechnology (3)

CBIO 511, Biochemistry I (3)

CBIO 512, Biochemistry II (3)

CBIO 551, Biostatistics (3)

\*All Ph.D. graduate students must enroll and attend CBIO 501 Biology Seminars until matriculation.

\*\* All Ph.D. students are required to register this course to document three (3) semesters of teaching activity.

##### **Laboratory Rotation Requirements:**

During the first year of study, all students pursuing the Doctor of Philosophy Degree in Biological Sciences are required to complete at least three (3) laboratory rotations (10 hours per week each).

Laboratory rotations provide doctoral students with exposure to a variety of research projects and techniques conducted in faculty research training laboratories. The rotations will also give students opportunities to make a decision regarding the research laboratory in which they will conduct their dissertation research.

**Advanced Courses in the Area of Specialization: 6 Credits**

CBIO 633, Advances in Molecular Biology (3)

CBIO 635, Advances in Cell Biology (3)

CBIO 643, Advances in Cancer Biology (3)

***Additional advanced courses will be required depending on students' research concentrations.***

**Research Courses in Biology: Variable Credits**

CBIO 683, Senior Bioscience Seminar (1)\*

CBIO 884, Research in Biochemistry (3-12)

CBIO 871, Research in Molecular Biology (3-12)

CBIO 881, Research in Cellular Biology (3-12)

CBIO 901, Dissertation Consultation (1)

\*This course is required for the 4th or 5th Ph.D. candidate to present his/her thesis research in front of the audiences prior to thesis defense.

**II. Research Tools**

Students must demonstrate proficiency in contemporary research methodologies, tools and technologies such as, Bioinformatics (CBIO556) as designated by the Department of Biological Sciences.

**III. Qualifying Examinations:**

The Qualifying Examination is scheduled and conducted by the student's dissertation committee. The PhD degree Program Qualifying Form and Research Prospectus must be filed in the departmental office at least one semester prior to the Qualifying Examination, which in turn must be taken at least two academic years prior to the time the degree is to be conferred but not earlier than the completion of two years of graduate work. Students are permitted two (2) attempts to successfully complete the Qualifying Examination.

**IV. Dissertation**

The terms thesis and dissertation are sometimes used interchangeably. However, more commonly, the term thesis is used in conjunction with the work submitted in partial fulfillment of the requirements for the MS degree and dissertation refers to the treatise or discourse submitted for the PhD degree. The thesis or dissertation is a formal presentation of the student's original investigations. It should demonstrate the candidate's technical competence and potential for carrying out productive research. It must contribute something additional to the existing body of knowledge or bring into focus a significantly different critical interpretation of the existing knowledge. It is the most important proof of a candidate's scholarly potential. It

also reflects the competence and standards of the departmental faculty and the University. Therefore, it must truly be a scholarly production.

#### V. Final Examination

These are formal departmental requirements and as such must be scheduled during regular academic year or summer session. The following procedures are to be followed to complete these requirements:

1. The PhD candidate should hold a formal meeting with his/her research committee to present a concise overview of finalized research data.
2. Upon approval by the committee, a final signed draft of the dissertation should be submitted to the department chair.
3. A research seminar/oral defense is required. The candidate or the advisor should schedule the seminar/oral defense based on the Office of Graduate Studies thesis submission timeline.
4. The seminar/oral defense is scheduled as a formally announced departmental event. Biology faculty and graduate students are invited to attend and actively participate in the same as a scientific/intellectual interaction between the candidate and the attendees. The seminar/oral defense is to be professionally prepared with appropriate visual aids.
5. Announcement must be posted one week prior to the seminar/oral defense. The Department of Biological Sciences considers the opinion of the total faculty in attendance in arriving at a consensus on the scientific/professional caliber of the seminar. Serious concerns indicated by a consensus of the attending faculty may result in the candidate having to repeat this departmental requirement.
6. At the conclusion of the seminar/oral defense, the research advisor should ensure that the Seminar and Oral Presentation Approval Forms are completed and signed by all faculty members in attendance including the Department Chair.

#### Plan of Study for Doctor of Philosophy Degree in Biological Sciences (72 Credits)

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CBIO 501*	Biology Seminar	0	CBIO 501*	Biology Seminar	0
CBIO 502**	Instructional Practicum	0	CBIO 502*	Biology Seminar II	0
CBIO 504	Molecular Genetics	3	CBIO 506	Cell Biology	3
CBIO 509	Methods and Techniques in Biotechnology	3	CBIO 551	Biostatistics	3
CBIO 511	Biochemistry I	3	CBIO 512	Biochemistry II	3
	<i>Laboratory Rotation I</i>			<i>Laboratory Rotation II (continued)</i>	
	<i>Laboratory Rotation II</i>			<i>Laboratory Rotation III</i>	
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
	Summer	Cr			
CBIO XXX	Research in Biology	3			
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CBIO 501*	Biology Seminars	0	CBIO 502*	Biology Seminar II	0
CBIO 502**	Instructional Practicum	0	CBIO 633	Advances in Molecular Biology	3
CBIO 635	Advances in Cell Biology	3	CBIO XXX	Research in Biology	6
CBIO XXX	Research in Biology	6			
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
	Summer	Cr			
CBIO XXX	Research in Biology	3			

Year Three					
	Fall Semester	Cr		Spring Semester	Cr
CBIO 501*	Biology Seminars	0	CBIO 501*	Biology Seminars	0
CBIO XXX	Research in Biology	6	CBIO XXX	Research in Biology	6
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>
	Summer	Cr			
CBIO XXX	Research in Biology	3			
Year Four					
	Fall Semester	Cr		Spring Semester	Cr
CBIO 501*	Biology Seminars	0	CBIO 501*	Biology Seminars	0
CBIO 683***	Senior Bioscience Seminar	1	CBIO 8XX	Research in Biology	6
CBIO XXX	Research in Biology	6			
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>
	Summer	Cr			
CBIO XXX	Research in Biology	2			
CBIO 901	Dissertation Consultation	1			
	<b>TOTAL</b>	<b>3</b>			
*All Ph.D. graduate students must enroll and attend CBIO 501 Biology Seminars until matriculation.					
** All Ph.D. students are required to register this course to document three (3) semesters of teaching activity					
***This course is required for the 4th or 5th Ph.D. candidate to present his/her thesis research in front of the audiences prior to thesis defense.					

## DEPARTMENT OF CHEMISTRY

Thomas W. Cole, Jr., Research Center for Science and Technology, Suite 2025

Telephone: (404) 880-6850

Dr. Conrad W. Ingram

(Chair)

cingram@cau.edu

### Overview

The Department of Chemistry offers graduate degree programs designed for students interested in the chemical professions and for students who desire a career in teaching chemistry, biology, physics, mathematics, engineering, and other health sciences as well as preparation for graduate study. Chemistry majors graduate with a wide choice of career possibilities as researchers and administrators in the chemical, environmental, health and pharmaceutical industries.

The Department educates students to become adept in the molecular sciences, and to apply their skill and knowledge for analysis and for solution of wide-ranging problems. Our goal is to prepare students to be proficient in the methods of scientific inquiry. Some will pursue scientific careers and contribute as experimentalists or theoreticians in varied research or industrial settings. Others will apply the methods and discoveries of this discipline in many associated professions, such as the health sciences and public policy. Chemistry and its associated disciplines, Materials Science, Biological Chemistry, Environmental Science, are advancing rapidly and transforming society in the material and sociological arenas. The faculty and many students are engaged fully in research and development of these evolving sciences.

### Mission

The mission of the Department of Chemistry is to provide students a rigorous course of study in the physical and chemical sciences by utilizing multi-faceted learning experiences, guided inquiry laboratory,

and scientific research to prepare students for careers as chemists or professionals in research and development, scientific discovery, or medical service in the global community.

### **Vision**

The vision of the Department of Chemistry is to become a leading provider of interdisciplinary approaches to chemistry education and research that attracts and prepares diverse students to be scientifically literate and competitive professionals to meet the future demands of the changing global environment.

### **Programs of Study**

Master of Science Degree in Chemistry (31 Credits)

Master of Science Degree in Chemistry: Biochemistry Concentration (36 Credits)

Master of Science Degree in Industrial Chemistry (37 Credits)

Doctor of Philosophy Degree in Chemistry (72 Credits)

*Students may concentrate their studies in Analytical, Organic, Inorganic, Physical and Polymer Chemistry, and Biochemistry.*

### **Master of Science Degree in Chemistry (31 Credits)**

#### **Program Overview**

The **Master of Science Degree in Chemistry** is available for those students interested in gaining the necessary knowledge and skills for advancing in their career and positioning themselves for a non-entry level position in chemistry. Students in the program are also prepared to pursue an advanced degree in chemistry or entry to a professional school.

#### **Admissions Requirements**

Students apply to the Master of Science Degree must possess a BS or BA in Chemistry or related field. In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Science Degree in Chemistry** must have completed two semesters each of physics and calculus. GRE Required.

#### **Program Objectives**

1. Introduce students to the fundamental laboratory and technical concepts and background concepts in the core areas of organic, analytical, physical and inorganic chemistry.
2. Prepare students to be proficient in the methods of scientific inquiry in the fields of chemistry and its associated disciplines.
3. Prepare student to engage in scholarly research methods and discoveries of the discipline.
4. Prepare student for advanced studies, professional careers in chemistry and related fields, or other scholarly endeavors.

#### **Student Learning Outcomes**

Students pursuing the **Master of Science Degree in Chemistry** will:

1. Apply scientific knowledge and quantitative and qualitative skills to analyze and solve a wide-range of problems in the area physical and molecular sciences.
2. Apply fundamental concepts in the core areas of organic, analytical, physical and inorganic chemistry to execute experimental projects.
3. Utilize technical skill sets to collect, analyze and interpret data to conduct independent project-based research.
4. Effectively communicate information on molecular sciences in written and oral formats to scientific and non-scientific audiences.



- Practice professional ethics in the conduct of scientific inquiry, scholarly research, and independent scientific thinking.

### Degree Requirements

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Master of Science Degree in Chemistry** and the **Master of Science Degree in Chemistry with concentration in Biochemistry** are required to pass **Basic Examinations** during the week of registration in order to insure that they begin graduate work at a level commensurate with their background. The examinations include the subject matter covered by the following courses: general chemistry, qualitative and analytical chemistry, organic chemistry, physical chemistry, and mathematics through calculus.

A candidate for the **Master of Science Degree in Chemistry** must complete a minimum of thirty-one (31) graduate credits in a program of study and research approved by the Department Chair in consultation with the student and his/her major professor.

Students interested in pursuing the **Master of Science Degree in Chemistry with concentration in Biochemistry** must complete a minimum of thirty-seven (36) graduate credits and research approved by the Department Chair in consultation with the student and his/her major professor.

### Master of Science Degree in Chemistry (31 Credits)

#### V. Core Requirements: (19 Credits)

CCHE 508, Seminar in Chemistry (1)\*

CCHE 512, Instrumental Methods (3)

CCHE 521, Advanced Inorganic Chemistry (3)

CCHE 531, Mechanistic Organic Chemistry (3)

CCHE 532, Organic Synthesis (3)

CCHE 541, Thermodynamics (3)

CCHE 542, Quantum Chemistry (3)

**\* Required of all graduate students and must be taken for one semester to earn one hour of credit. Students generally register for this course during the semester of their thesis defence.**

#### Electives in Chemistry: (6 Credits)

CCHE XXX, Graduate Elective in Chemistry (3)

CCHE XXX, Graduate Elective in Chemistry (3)

#### VI. Thesis Research: (6 Credits)

CCHE 7XX, Thesis Research Area of Study (Variable Credits). Students are strongly encouraged to take a Thesis Research course in the Summer of year 1.

**Must be approved by the Department Chair in consultation with the student's major area professor.**

#### VII. Qualifying Examinations

### Plan of Study for Master of Science Degree in Chemistry (31 Credits)

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CCHE 521	Advanced Inorganic Chemistry	3	CCHE 542	Quantum Chemistry	3
CCHE 531	Mechanistic Organic	3	CCHE 512	Instrumental Methods	3

	Chemistry				
CCHE 541	Thermodynamics	3	CCHE 532	Organic Synthesis	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<b>Year Two</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CCHE XXX	Graduate Elective in Chemistry	3	CCHE XXX	Graduate Elective in Chemistry	3
CCHE 7X0*	Thesis Research	3	CCHE 7X0*	Thesis Research	3
CCHE 508**	Seminar in Chemistry	0	CCHE 508**	Seminar in Chemistry	1
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>7</b>
* Must be approved by the Department Chair in consultation with the student's major area professor.					
**Required of all graduate students and must be taken for one semester to earn one hour of credit. Students generally register for this course during their semester of defence of the thesis.					

### Master of Science Degree in Chemistry: Biochemistry Concentration (36 Credits)

#### VIII. Core Courses: (18 Credits)

- CCHE 512, Instrumental Methods (3)
- CCHE 521, Advanced Inorganic Chemistry (3)
- CCHE 531, Mechanistic Organic Chemistry (3)
- CCHE 532, Organic Synthesis (3)
- CCHE 541, Thermodynamics (3)
- CCHE 542, Quantum Chemistry (3)

#### Biochemistry Concentration: (12 Credits)

- CCHE 551, Advanced Biochemistry I (3)
- CCHE 552, Advanced Biochemistry II (3)
- CCHE 651, Physical Biochemistry (3)
- CBIO 504, Molecular Genetics (3)

*or*

- CBIO 506, Cell Biology (3)

#### IX. Thesis Research: (6 Credits)

- CCHE 7X0, Thesis Research Area of Study (Variable Credits)

Must be approved by the Department Chair in consultation with the student's major area professor.

#### X. Qualifying Examinations

### Plan of Study for Master of Science Degree in Chemistry with concentration in Biochemistry (36 credits)

<b>Year One</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CCHE 521	Advanced Inorganic Chemistry	3	CCHE 542	Quantum Chemistry	3
CCHE 531	Mechanistic Organic Chemistry	3	CCHE 552	Advanced Biochemistry II	3
CCHE 551	Advanced Biochemistry I	3	CCHE 532	Organic Synthesis	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<b>Year Two</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CCHE 541	Thermodynamics	3	CCHE 512	Instrumental Methods	3
CBIO 504 <i>or</i> CBIO 506	Molecular Genetics <i>or</i> Cell	3	CCHE 651	Physical Biochemistry	3

	Biology				
CCHE 7X0*	Thesis Research	3	CCHE 7X0*	Thesis Research	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<b>* Must be approved by the Department Chair in consultation with the student's major area professor.</b>					

## Master of Science Degree in Industrial Chemistry (37 Credits)

### Program Overview

The Master of Science degree in Industrial Chemistry is for those students who wish to work in a company environment while pursuing the **Master of Science Degree in Industrial Chemistry**. Students in this program are generally directed by their company to pursue the additional skill set to advance them in the company environment.

### Admissions Requirements

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Science Degree in Industrial Chemistry** must have completed two semesters each of physics and calculus. GRE Required.

### Program Objectives

1. Introduce students to the fundamental laboratory and technical concepts and background concepts in the core areas of organic, analytical, physical and inorganic chemistry.
2. Prepare students to be proficient in the methods of scientific inquiry in the field of industrial chemistry and its associated disciplines.
3. Prepare student to engage in scholarly research methods and discoveries of the discipline.
4. Prepare student for advanced studies, professional careers in industrial chemistry and related fields, or other scholarly endeavors.

### Student Learning Outcomes

Students pursuing the **Master of Science Degree in Industrial Chemistry** will:

1. Apply scientific knowledge and quantitative and qualitative skills to analyze and solve problems in the area industrial chemistry.
2. Apply fundamental concepts in the core areas of organic, analytical, physical and inorganic chemistry to execute experimental projects.
3. Utilize technical skill sets to collect, analyze and interpret data to conduct independent project-based research.
4. Effectively communicate information on industrial chemistry in written and oral formats to scientific and non-scientific audiences.
5. Practice professional ethics in the conduct of scientific inquiry, scholarly research, and independent scientific thinking.

### Degree Requirements

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Master of Science Degree in Industrial Chemistry** are required to pass basic examinations during the first week of registration in order to insure that they begin graduate work at a level commensurate with their background. The examinations include the subject matter covered by the following courses: general chemistry, qualitative analysis, organic chemistry, physical chemistry, and mathematics through calculus.

A candidate for the **Master of Science Degree in Industrial Chemistry** must complete a minimum of thirty-seven (36) graduate credits in a program of study and internship **or** thesis research approved by the Department Chair in consultation with the student and his/her major professor.

**Master of Science Degree in Industrial Chemistry (37 Credits)**

**I. Required Courses in Chemistry: (28 Credits)**

- CCHE 508, Seminar in Chemistry (1)\*
- CCHE 512, Instrumental Methods (3)
- CCHE 521, Advanced Inorganic Chemistry (3)
- CCHE 531, Mechanistic Organic Chemistry (3)
- CCHE 532, Organic Synthesis (3)
- CCHE 541, Thermodynamics (3)
- CCHE 542, Quantum Chemistry (3)
- CCHE 561, Topics in Industrial Chemistry (3)
- CCHE 562, Scale-Up for Chemists (3)
- CCHE 571, Introduction to Polymer Chemistry (3)

\* Required of all graduate students and must be taken for two semesters to earn one hour of credit.

**Graduate Elective in Business Administration: (3 Credits)**

\*See the School of Business Administration course listings.

**II. Thesis or Internship: (6 Credits)**

CCHE 7X0, Thesis Research Area of Study (Variable Credits)\*

**or**

CCHE 800, Internship (6)\*

\* Must be approved by the Department Chair in consultation with the student's major area professor.

**III. Qualifying Examinations**

**Plan of Study for Master of Science Degree in Industrial Chemistry (37 credits)**

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CCHE 521	Advanced Inorganic Chemistry	3	CCHE 512	Instrumental Methods	3
CCHE 531	Mechanistic Organic Chemistry	3	CCHE 542	Quantum Mechanics	3
CCHE 541	Thermodynamics	3	CCHE 532	Organic Synthesis	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CCHE 561	Topics in Industrial Chemistry	3	CCHE 562	Scale-Up for Chemists	3
CCHE 571	Introduction to Polymer Chemistry	3	CCHE 508*	Seminar in Chemistry	1
CCHE 508*	Seminar in Chemistry	0	CCHE 800*** <b>or</b> CCHE 7X0***	Internship <b>or</b> Thesis Research	3
CSB XXX**	Business Administration Elective	3			
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>7</b>
	Summer	Cr			
CCHE 800* <b>or</b> CCHE 700*	Internship <b>or</b> Thesis Research	3			
* Required of all graduate students and must be taken for two semesters to earn one hour of credit					
**See the School of Business Administration course listings.					
*** Must be approved by the Department Chair in consultation with the student's major area professor.					

## **Doctor of Philosophy Degree in Chemistry (72 Credits)**

### **Program Overview**

The **Doctor of Philosophy Degree in Chemistry** is for those students that wish to gain the skills to propose and conduct research in Chemistry.

### **Admissions Requirements**

#### **Program Objectives**

1. Emphasize the multidisciplinary aspects of physical and molecular sciences.
2. Promote the development of the skills required for scientific inquiry, writing and presentation.
3. Provide opportunities for students to gain academic teaching and research experiences that will prepare them for scholarly and productive endeavors.
4. Train scientists and scholars to perceive fundamental problems in areas of chemistry; and to investigate them successfully.
5. Prepare Ph.D. level students for postdoctoral research or academic teaching positions in academic, scientific or other industries.

#### **Student Learning Outcomes**

Students pursuing the **Doctor of Philosophy Degree in Chemistry** will:

1. Conduct independent and collaborative research to prepare proposals for fellowship and funding, and scientific articles in peer-reviewed journals.
2. Communicate effectively scientific research in written and oral formats to scientific and non-scientific audiences at professional conferences and other academic venues.
3. Teach laboratory classes in introductory chemistry.
4. Practice professional ethical standards in the conduct of scientific experiment, inquiry, scholarly research and teaching.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Doctor of Philosophy Degree in Chemistry** are required to complete a minimum of forty-two (42) graduate credits in residence. Minimum departmental degree requirements are core course requirements plus additional coursework as defined by the division: analytical, physical, inorganic, organic, polymer or biochemistry.

#### **XI. Required Core Courses: 18 Credits**

CCHE 521, Advanced Inorganic Chemistry (3)

CCHE 531, Mechanistic Organic Chemistry (3)

CCHE 541, Thermodynamics (3)

CCHE 512, Instrumental Methods (3)

CCHE 542, Quantum Mechanics (3)

CCHE 532, Organic Synthesis (3)

#### **Area of Concentration Core**

*Students must select courses per their area of concentration*

#### **Organic Chemistry Concentration: 3 Credits**

CCHE 533, Physical Organic Chemistry (3)

**Biochemistry Concentration: 6 Credits**

CCHE 551, Biochemistry I (3)

CCHE 552, Biochemistry II (3)

**Polymer Concentration: 9 Credits**

CCHE 571, Introduction to Polymer Chemistry (3)

CCHE 572, Techniques in Polymer Chemistry (3)

CCHE 573, Physical Polymer Science (3)

**Electives: (Up to 6 Credits)**

**Depending on concentration requirements**

**XII. Research Dissertation: Variable Credits**

**Depending on the concentration**

**XIII. Qualifying Examinations**

1. *For Bachelor's Degree Entrants:* Three General Qualifying Examinations and one Advanced Qualifying Examination by the end of the second year. Qualifying Examinations in the field of specialization by the end of the third year.
2. *For Master's Degree Entrants:* An advanced Qualifying Examination by the end of the first year. Qualifying Examinations in the field of specialization by the end of the second year.
3. *For Biochemistry Majors:* Exemption from the general comprehensive examination in inorganic chemistry.

**XIV. Independent Proposal Requirement**

**All students must produce and successfully defend an independent research proposal in an area that is not equivalent to their area of research.**

**XV. Final Examination**

- **The final examination is the production and successful defense of the research**

**Sample Plan of Study for Doctor of Philosophy Degree in (Organic) Chemistry (72 credits)**

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CCHE 521	Advanced Inorganic Chemistry	3	CCHE 512	Instrumental Methods	3
CCHE 531	Mechanistic Organic Chemistry	3	CCHE 542	Quantum Mechanics	3
CCHE 541	Thermodynamics	3	CCHE 532	Organic Synthesis	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
	<b>Summer</b>	<b>Cr</b>			
CCHE 7X0	Research in Chemistry	6			
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CCHE 533	Physical Organic Chemistry	3	CCHE 637	Advanced Topics in Organic Chemistry	3

CCHE 7X0	Research in Chemistry	6	CCHE 7X0	Research in Chemistry	6
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
	<b>Summer</b>	<b>Cr</b>			
CCHE 7X0	Research in Chemistry	6			
<b>Year Three</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CCHE 7X0	Research in Chemistry	9	CCHE 508*	Seminar in Chemistry	1
CCHE 508*	Seminar in Chemistry	0	CCHE 901	Dissertation Consultation	1
	<b>TOTAL</b>	<b>9</b>	CCHE 7X0	Research in Chemistry	7
	<b>Summer</b>	<b>Cr</b>		<b>TOTAL</b>	<b>9</b>
CCHE 7X0	Research in Chemistry	6			
* Required of all graduate students and must be taken for two semesters to earn one hour of credit.					

## DEPARTMENT OF CYBER-PHYSICAL SYSTEMS

Thomas W. Cole, Jr., Research Center for Science and Technology, Suite 1015

Telephone: (404) 880-6951

### Overview

The Department of Cyber-Physical Systems offers the **Master of Science Degree in Computer Science** to provide graduate students a balanced practical and theoretical approach to the study of software and hardware that includes the latest advances in this industry. The Department has established a competitive research and training base by enhancing its computer science academic program, research faculty, and infrastructure.

The Departmental research thrusts include Information Security, Data Mining, High Performance Computing, Wireless Communication, and Image Processing. These projects, primarily funded through grants and contracts, are conducted by faculty members leading teams of graduate and undergraduate students. Student participation in research and development activities is an integral part of the student-training process. All students are required to complete research/design projects, thus emphasizing the importance and interrelationship among research, design and education.

The Department's academic and research activities are strengthened via several major funded initiatives. These projects provide opportunities for student participation in research/design efforts and related laboratory work. The department has linkages with several research institutions, government research laboratories and industries to facilitate student summer internships, job placement, and doctoral studies.

### Mission

The mission of the Department of Computer and Information Science is to educate diverse students in an intellectually challenging program of study focused towards the analysis, design, and implementation of software systems by providing an advanced and rigorous curriculum with integrated laboratory-based and practical experiences that make students globally competitive for employment with government and industry.

### Vision

The vision of the Department of Computer and Information Science is to become nationally recognized in educating bachelors to terminal degree level students in the Computer Sciences with knowledge, skills and practical training needed to understand and address inter- and multi-disciplinary problems of a national and global scale.

## **Program of Study**

Master of Science Degree in Computer Science (30 Credits)

### **Program Overview**

The **Master of Science Degree in Computer Science** exposes students to the complete life-cycle of computer application development including abstraction, modeling and algorithm development, leveraging computer systems, programming languages and development frameworks, and software development techniques and processes. Graduates of this program are typically employed as software developers and engineers. The program provides students with expertise in programming and software development, algorithm design and computer science concepts, and computer and database systems.

**\*\*Those students without an undergraduate degree in Computer Science or related field, must complete 2 pre-requisites, 400 level undergraduate courses (6 hours). Student will be assessed to determine which courses to take.**

### **Admissions Requirements**

Applicants to the **Master of Science Degree in Computer Science** must meet the General Admissions Requirements as published in this Catalog. GRE required.

#### **Program Objectives**

1. Train students in computer programming and software development, algorithm design and computer science concepts, and computer and database systems.
2. Introduce students to professional, ethical, legal, security and social issues and responsibilities in computer sciences.
3. Provide students with current techniques, skills, and tools necessary conduct research-based projects and presentations.
4. Prepare students for advanced studies and professional careers in Software Development or Computer Science Research.

#### **Student Learning Outcomes**

Students pursuing the **Master of Science Degree in Computer Science** will:

1. Analyze the local and global impact of computing on individuals, organizations and society.
2. Identify and analyze computer science related problems and apply design and development principles in the construction of appropriate systems solutions.
3. Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
4. Work collaboratively to accomplish group projects.
5. Utilize ethical, legal, and security standards to address systems issues in social and professional settings.
6. Apply mathematical foundations, algorithmic principles, and computer science theories in the choices modeling and design of computer-based systems.

### **Degree Requirements**

In addition to the General Degree Requirements published in this Catalog, students pursuing the **Master of Science Degree in Computer Science** must complete the following requirements:

#### **I. Core Courses: (12 Credits)**

- CCIS 671, Algorithm Design & Analysis (3)
- CCIS 672, Computer Organization (3)
- CCIS 673, Operating Systems Design (3)
- CCIS 674, Database Design (3)



**II. Research/Design Project: (3 Credits)\***

Complete research/design project leading to a technical report from one of the following courses:

CCIS 803, Systems Software/Hardware (3)

CCIS 805, Data Base (3)

CCIS 807, Distributed Systems/Networking (3)

CCIS 815, Information Systems (3)

**\*This is a capstone course for non-thesis research option.**

**III. Thesis Research Option or Non-Thesis Option: 18 Credits**

**Thesis Research Option: (18 Credits)**

CCIS 821, Thesis Research (6) *and*

CCIS XXX, Graduate Electives in Computer Science (12)

**Note: Students pursuing thesis research must complete a continuation of the Research/Design Project leading to a graduate thesis and final examination regarding thesis results and twelve (12) other credit hours of graduate level electives in the discipline.**

*or*

**Non-Thesis Option: (18 Credits)**

CCIS XXX, Graduate Electives in Computer Science (15) and

Research/ Design Project (capstone): (3 Credits) (see above #II)

**Note: Students pursuing the Thesis option must complete twelve (12) hours of core courses, twelve (15) other credit hours of graduate level electives in the discipline, and the Thesis research course (3 credits). Students enrolled in the non-Thesis option must complete twelve (12) hours of core courses, twelve (15) other credit hours of graduate level electives in the discipline, and a Research/Design Project (3 credits)**

**Plan of Study for the Master of Science Degree in Computer Science (30 Credits)**

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CCIS 671	Algorithm Design & Analysis	3	CCIS 674	Database Design	3
CCIS 672	Computer Organization	3	CCIS XXX	Graduate Elective	3
CCIS 673	Operating Systems Design	3	CCIS XXX*	Graduate Elective	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two - Thesis Research Option					
	Fall Semester	Cr		Spring Semester	Cr
CCIS 821	Thesis Research	3	CCIS 821	Thesis Research	3
CCIS XXX*	Graduate Elective	3	CCIS XXX*	Graduate Elective	3
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>
Year Two - Non-Thesis Option					
	Fall Semester	Cr		Spring Semester	Cr
CCIS XXX*	Graduate Elective	3	CCIS XXX*	Graduate Elective	3
CCIS XXX*	Graduate Elective	3	CCIS 8XX*	Research/Design Project in Computer Science	3
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>

**\*All electives must be at graduate level in Computer Science.**



## **DEPARTMENT OF MATHEMATICAL SCIENCES**

**McPheeters-Dennis Hall, Room 139**

**Telephone: (404) 880-8199**

### **Overview**

The Department of Mathematical Sciences offers graduate programs of study leading to the Master of Science Degree in Mathematics. Two concentration tracks are offered: Pure Mathematics or Applied Mathematics, and a total of 30 credit hours are required to complete the program. The Department prepares its graduate students, in either of the two concentrations, for advanced graduate studies in mathematics or mathematics related areas, or for career opportunities in industry, government and education. The program is also appropriate for students interested in interdisciplinary graduate training in the sciences and engineering.

Students admitted to the graduate programs have available to them excellent computer facilities, and a choice of working with faculty members in specialized research areas. Research activities are mainly concentrated in the areas of dynamical systems, numerical simulations for systems of differential equations, difference equations, applied analysis and Bayesian Statistics.

### **Mission**

The mission of the Department of Mathematical Sciences is to prepare students in the theory and applications of mathematics through a broad range of learning experiences and tools, including various computational methodologies, to succeed in advanced mathematics and mathematics related degree programs or to pursue mathematics related careers in private industry, government or education.

### **Vision**

The vision of the Department of Mathematical Sciences is to be a major force in producing competitive scholars and recognized professionals in mathematics and mathematics related areas by equipping them with strong theoretical and research mathematics content using up-to-date technologies and forging collaborations with other related disciplines

### **Program of Study**

Master of Science Degree in Mathematics (30 Credits)

- Pure Mathematics Concentration
- Applied Mathematics Concentration

### **Admission Requirements**

The admission requirement is a bachelor's degree with a strong undergraduate background in mathematics. Applicants with deficiencies in mathematics may be accepted subject to taking specified undergraduate courses in addition to the graduate program requirements. Applicants for the Master of Science Degree in Mathematics must also meet the General Admissions Requirements as published in the Graduate Catalog. The GRE is required.

### **Program Objectives**

1. Prepare students to demonstrate in-depth knowledge and mastery of mathematics, its methods and mathematics.
2. Prepare students to conduct in-depth research and produce innovative approaches to solve problems in mathematics.

3. Prepare students to communicate effectively both in written and oral form, on contemporary and traditional topics in mathematics.
4. Prepare and motivate students for advanced graduate studies, or careers in industry, government, or education or in fields related to mathematics.

### **Student Learning Outcomes**

Students pursuing the Master of Science Degree in Mathematics will be able to:

1. Construct proofs of major advanced theoretical results in mathematics.
2. Use abstract mathematical reasoning and modeling to solve disciplinary and interdisciplinary problems.
3. Apply mathematical theories and concepts to conduct scholarly research in interdisciplinary areas.
4. Present mathematical research results and findings in written and oral forms for mathematical, scientific, and general audiences.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the Master of Science Degree in Mathematics with concentrations in **Pure Mathematics** or **Applied Mathematics** must complete a minimum of thirty (30) graduate credits.

For the thesis option, students are required to complete at least twenty-four (24) graduate mathematics credits and six (6) thesis related credits.

For the non-thesis option **Applied Mathematics concentration track**, at least 24 credits of the 30 credits must be in mathematics. Up to 6 credits of areas of special applications courses are determined jointly by the interest of the graduate student in consultation with the graduate mathematics advisor and members of other departments who are formally designated as graduate faculty.

For the non-thesis **Pure Mathematics concentration track**, at least 24 credits of the 30 credits must be in mathematics. Up to 6 credits of areas of special theoretical concentration courses are determined jointly by the interest of the graduate student, the graduate mathematics advisor and members of other departments who are formally designated as graduate faculty.

In either pure or applied concentration tracks, students must maintain a minimum cumulative grade point average of 3.0 to continue in the program.

#### **Graduate Courses: Pure Mathematics Concentration:**

CMAT 521, Real Analysis I (3)

CMAT 522, Real Analysis II (3)

CMAT 523, Complex Variables I (3)

CMAT 524, Complex Variables II (3)

CMAT 525, Algebra I (3)

CMAT 526, Algebra II (3)

CMAT 527, Topology I (3)

CMAT XXX, Graduate Mathematics Elective (3)

CMAT 675, Thesis Research or CMAT XXX, Graduate Elective (3)

CMAT 676, Thesis Research or CMAT XXX, Graduate Elective (3)

**or**

**Graduate Course: Applied Mathematics Concentration:**

- CMAT 521, Real Analysis I (3)
- CMAT 522, Real Analysis II (3)
- CMAT 523, Complex Variables I (3)
- CMAT 524, Complex Variables II (3)
- CMAT 527, Topology I (3)
- CMAT 541, Principles of Applied Mathematics I (3)
- CMAT 542, Principles of Applied Mathematics II (3)
- CMAT XXX, Graduate Elective in Mathematics (3)
- CMAT 675, Thesis Research or CMAT XXX, Graduate Elective (3)
- CMAT 676, Thesis Research or CMAT XXX, Graduate Elective (3)

**Plan of Study for Master of Science Degree in Mathematics**

**Pure Mathematics Concentration (30 Credits)**

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CMAT 521	Real Analysis I	3	CMAT 522	Real Analysis II	3
CMAT 523	Complex Variables I	3	CMAT 524	Complex Variables II	3
CMAT 527	Topology I	3	CMAT XXX	Graduate Elective in Mathematics	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CMAT 525	Abstract Algebra I	3	CMAT 526	Abstract Algebra II	3
CMAT 675 <i>or</i> CMAT XXX	Thesis Seminar I <i>or</i> Graduate Elective	3	CMAT 676 <i>or</i> CMATXXX	Thesis Seminar II <i>or</i> Graduate Elective	3
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>

**Applied Mathematics Concentration (30 Credits)**

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CMAT 521	Real Analysis I	3	CMAT 522	Real Analysis II	3
CMAT 523	Complex Variables I	3	CMAT 524	Complex Variables II	3
CMAT 541	Applied Mathematics I	3	CMAT 542	Applied Mathematics II	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CMAT 527	Topology I	3	CMAT XXX	Graduate Elective in Mathematics	3
CMAT 675 <i>or</i> CMAT XXX	Thesis Seminar I <i>or</i> Graduate Elective	3	CMAT 676 <i>or</i> CMAT 651	Thesis Seminar II <i>or</i> Graduate Elective	3
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>

**McPheeters-Dennis Hall, Room 102**

**Telephone: (404) 880-8797**

### **Program Description**

The Department of Physics prepares graduate students with the skills and experience to perform scientific research in physics, emphasizing the practical applications of theoretical and fundamental physical concepts and experimental studies of the current technological and environmental problems.

The Department offers the **Master of Science Degree in Physics** with concentrations in **Pure Physics or Applied Physics**. The graduate program curriculum focuses on theoretical basis of classical and modern physics that explains the nature and behavior of matter and energy, and the formulation and testing of the laws governing the behavior of the matter-energy continuum that solidify students' command of the concepts and methods of the discipline through coursework and research. The program courses are designed to strengthen and extend a solid background in the fundamentals of scientific thinking and techniques of the theoretical foundation of physics and to introduce to areas of current research in the field and an opportunity for in-depth investigations. The coursework instruction includes modern physics, electricity and magnetism, thermodynamics, mechanics, wave properties, nuclear processes, relativity and quantum theory, quantitative methods, and laboratory methods. The concentration in Applied Physics equips graduates with tools and techniques for analyzing and solving applied problems arising in government and private industry. The two concentrations differ in the choice of elective courses and topic of thesis research or non-thesis research.

Students in this program have opportunities to conduct forefront research working closely with the department faculty complemented by formal coursework to gain research experience and a deep scientific study of the field. Physics majors are prepared for advanced graduate work and to become the next generation of leading teachers, scholars, researchers, and professionals in the fields of fundamental and applied physics, and practice in branches of engineering.

### **Mission**

The mission of the Department of Physics is to prepare students in the theories and experimentation of physical, computational, and mathematical sciences through hands-on training and skill-building opportunities for careers in research and technology and entry into advanced degree programs.

### **Vision**

The vision of the Department of Physics is to be a recognized force in the Physics community world-wide by training a diverse body of students through an innovative and research-oriented environment to become competent professionals in Physical sciences and related technological areas.

### **Program of Study**

Master of Science Degree in Physics (30 Credits)

- Pure Physics Concentration
- Applied Physics Concentration

### **Program Objectives**

1. Discuss fundamental and advanced theoretical principles of physics and analytical, computational, and mathematical concepts to conduct in-depth research in the field.
2. Prepare students to develop mathematical models of the physical processes to analyze practical problems using critical thinking and reasoning skills.
3. Engage students in laboratory settings to conduct scientific experiments and use data analysis.
4. Train students to apply mathematical and computational skills required for professional work in the fields of science and technology.
5. Prepare students for advanced graduate studies or careers in industry, government, or education in fields related to mathematics.

### **Student Learning Outcomes**

Students pursuing the **Master of Science Degree in Physics** will be able to:

1. Demonstrate knowledge of quantitative methods appropriate for core area courses in Mathematical Methods, Quantum Mechanics, Electrodynamics, Thermodynamics, and Classical Mechanics.
2. Integrate physical concepts for the analysis of complex problems cutting across multidisciplinary STEM areas.
3. Analyze and model physical systems by utilizing mathematical approximations and models.
4. Communicate orally and in writing by making appropriate use of current presentation technology.

### **Admissions Requirements**

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Science Degree in Physics** with concentrations in **Pure Physics or Applied Physics** must fulfill the following:

1. Bachelor of Arts or Bachelor of Science degree with a major in one of the physical sciences.
2. Completion of undergraduate courses in General Physics, Mechanics, Electricity and Magnetism, Optics, Modern Physics/Quantum Mechanics, Differential and Integral Calculus, and Differential Equations.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students must complete the following course requirements:

#### **IV. Core Courses: 21 Credits**

- CPHY 501, Classical Mechanics (3)
- CPHY 503, Electrodynamics (3)
- CPHY 515, Quantum Mechanics I (3)
- CPHY 516, Quantum Mechanics II (3)
- CPHY 520, Thermodynamics and Statistical Mechanics (3)
- CPHY 531, Mathematical Methods I (3)
- CPHY 532, Mathematical Methods II (3)

#### **Elective Courses: 3 Credits for Thesis and 6 credits for Non-Thesis Research**

- CXXX XXX, Graduate Elective (3)\*
- CXXX XXX, Graduate Elective (3)\*

#### **Graduate Electives**

- CPHY 504      Modern Optics
- CPHY 540      Solid State Physics
- CPHY 545      Atomic and Nuclear Physics
- CPHY 550      Physics of Fluids

CPHY 565	Physics of Surfaces
CPHY 570	Radiation Physics
CPHY 585	Applied Quantum Mechanics I
CPHY 586	Applied Quantum Mechanics II
CPHY 604	Thesis Research or Non-Thesis Research Project Consultation
CPHY 605	Optical Fiber Measurements I
CPHY 606	Modern Optical Measurements II
CPHY 607	Advanced Optics
CPHY 610	Philosophy of Science
CPHY 615	Special Topics in Physics

**\*Students may elect graduate elective courses in Chemistry, Computer Science, or Mathematical Sciences.**

**Research Seminars: 0 Credits**

CPHY 601, Departmental Seminar I (0)  
 CPHY 602, Departmental Seminar II (0)

**V. Thesis Research or Non-Thesis Research: 6 Credits\***

CPHY 603, Thesis Research (1-6) **or** Non-Thesis Research (1-6)

**\*Pure Physics or Applied Physics Concentration**

**Plan of Study for Master of Science Degree in Physics (30/33 Credits)  
 Pure Physics or Applied Physics Concentrations**

Year One					
Fall Semester			Spring Semester		
		Cr			Cr
CPHY 501	Classical Mechanics	3	CPHY 503	Electrodynamics	3
CPHY 515	Quantum Mechanics I	3	CPHY 516	Quantum Mechanics II	3
CPHY 531	Mathematical Methods I	3	CPHY 532	Mathematical Methods II	3
CPHY 601	Departmental Seminar I	0	CPHY 602	Departmental Seminar II	0
		<b>TOTAL</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
Fall Semester			Spring Semester		
		Cr			Cr
CPHY 520	Thermodynamics and Statistical Mechanics	3	CPHY XXX	Graduate Elective	3
CPHY 601	Departmental Seminar I	0	CPHY 602	Departmental Seminar II	0
CPHY 603 <b>or</b> CPHY 604	Thesis Research <b>or</b> Non-Thesis Research	3	CPHY 603	Thesis Research <b>or</b> Non-Thesis Research	3
CPHY XXX CXXX XXX	Graduate Elective Graduate Elective				
		<b>TOTAL</b>		<b>TOTAL</b>	<b>6</b>



## **DIVISION OF SOCIAL SCIENCES**

### **Overview**

The Division of Social Sciences comprises the disciplines concerned with the forces, which mold society and provide insight into the roles which individuals, groups, and institutions play in the development of political and social life. Courses offered in the Division provide understanding of historical, political, and sociological factors that impact societal growth and change. Students in the social sciences learn to examine these factors critically and scientifically. The programs in social sciences prepare students for further graduate studies, academic positions or careers in law, urban planning, government service, social work, and research.

The Division of Social Sciences at Clark Atlanta University offers graduate degree programs in the Criminal Justice, Political Science, Public Administration, and Sociology. Each discipline in the social sciences focuses on specific problems and teaches a systematic method of analyzing them. Faculty members in the Division place particular emphasis on helping students to strengthen academic skills while mastering the techniques of research and other field activities.

### **DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE**

**Thomas W. Cole, Jr., Research Center for Science and Technology, Room 2003**

**Telephone: (404) 880-6659**

### **Overview**

The Department of Sociology and Criminal Justice was formed in 2001 by consolidating the W. E. B. DuBois Department of Sociology and the Department of Criminal Justice. The Department currently offers the **Master of Arts Degree in Sociology** and **Master of Arts Degree in Criminal Justice**. These degree programs use an interdisciplinary approach to the study of social, legal, organizational, and behavioral frameworks. A combination of traditional and non-traditional courses with supervised qualitative and quantitative research and fieldwork provides students with a comprehensive educational experience. Graduates of these degree programs are represented both at the national and international levels in teaching as well as practitioner positions. Graduates also hold executive positions in law enforcement agencies and in social services organizations.

The Department is committed to locating and recruiting those students interested in sociology and criminal justice regardless of their previous academic training – social science, engineering, police science, sociology and criminology. In every area of sociology and criminal justice, there is a need for students who are committed to making positive social changes within African American society and society in general.

The Department is also committed to providing graduate students with the knowledge, academic skills, and values that are essential to becoming successful and responsible practitioners and leaders in the criminal justice system and related areas. Both sociology and criminal justice prepare students to be useful, productive, and knowledgeable citizens in an increasingly complex society.

### **Mission**

The mission of the Department of Sociology and Criminal Justice is to prepare students with knowledge, skills, and values to become proficient in the use of major theoretical and practical perspectives on society in general, and the criminal justice system in particular, that positively impact global issues.

### **Vision**

The vision of the Department of Sociology and Criminal Justice is to train students with cutting-edge innovative social and protective programs of study that resolve societal problems and garner graduates with academic achievement to successfully compete and serve globally.

### **Programs of Study**

Master of Arts Degree in Sociology (30 Credits)

Master of Arts Degree in Criminal Justice (36 Credits)

### **Master of Arts Degree in Sociology (30 Credits)**

#### **Program Overview**

Building on the tradition of W. E. B. DuBois, the **Master of Arts Degree in Sociology** offers students research experiences for furthering their education through doctoral programs and for preparation to pursue research.

#### **Admissions Requirements**

In addition to the General Admissions Requirements as published in this Catalog, applicants are admitted to the **Master of Arts Degree in Sociology** whose previous academic preparation shows promise of the ability to successfully complete graduate level education in sociology. Applicants should have a broad-based background in the social and behavioral sciences or related areas. GRE required.

#### **Program Objectives**

1. Present theories, concepts, substantive problems, and methodologies related to sociological practice.
2. Introduce sociological factors that impact societal growth and change among different cultures and their institutional and individual manifestations.
3. Prepare students to advocate diversity of viewpoints, interpretations, and perceptions of reality on society in general.
4. Prepare students to engage in research-based inquiry and create new knowledge about social reality.
5. Prepare students for advanced studies, research experiences, and careers in the social and behavioral sciences or related areas.

#### **Student Learning Outcomes**

Students pursuing the **Master of Arts Degree in Sociology** will:

1. Apply theoretical principles and practices of sociological concepts to solve social and behavioral issues or problems.
2. Apply sociological perspectives on human conditions to conduct research-based scientific inquiry.
3. Examine current events and explain the significance of these events as an individual, a member of social groups, and a member of specific societies.
4. Communicate sociological perspectives and ideals in oral and written format through the use of current technology to diverse audiences.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Master of Arts Degree in Sociology** must complete the following requirements:

**I. Core Courses: 18 Credits**

- CSCJ 501, Sociological Theory (3)
- CSCJ 502, Criminological Theory (3)
- CSCJ 503, Research Methods I (3)
- CSCJ 504, Research Methods II (3)
- CSCJ 505, Statistics I (3)
- CSCJ 603, Statistics II (3)

**Elective Courses: 9 Credits (approved from the following list)**

- CSCJ 520, Urban Society and Culture (3)
- CSCJ 521, Population and Society (3)
- CSCJ 526, Selected Topics Seminar in Sociology and Criminal Justice (3)
- CSCJ 531, Social Psychology (3)
- CSCJ 553, Criminology and the Criminal Justice System (3)
- CSCJ 555, Medical Sociology (3)
- CSCJ 559, Deviant Behavior (3)
- CSCJ 562, Social Stratification (3)
- CSCJ 579, Race and Ethnic Relations (3)
- CSCJ 590, Special Topics (3)
- CSCJ 5XX, Other Approved Elective at 500 or higher course level (3)+

**II. Thesis Research or Practicum: 3 Credits**

Students must complete a thesis based on a topic approved by the department chair and faculty **or** a practicum with an approved agency/organization including a minimum of 480 contact hours.

CSCJ 805, Thesis Research (3)

**or**

CSCJ 519, Practicum (3)\*

**\*CSCJ 519: Practicum must be with an approved social services or criminal justice agency, or with an approved education and/or research organization. A minimum of 480 contact hours and a paper on the practicum experience is required. See the graduate program coordinator for details.**

**VI. Qualifying Examinations**

Students must complete written and/or oral examinations. Students are permitted a **maximum of three (3)** attempts to pass the examinations.

**VII. Final Examination**

An oral examination covering the student's Thesis Research or Practicum experience.

### Plans of Study for Master of Arts Degree in Sociology (30 Credits)

Year One					
Fall Semester		Cr	Spring Semester		Cr
CSCJ 501	Sociological Theories	3	CSCJ 502	Criminological Theories	3
CSCJ 503	Research Methods I	3	CSCJ 504	Research Methods II	3
CSCJ 505	Statistics I	3	CSCJ 603	Statistics II	3
<b>TOTAL</b>		<b>9</b>	<b>TOTAL</b>		<b>9</b>
Year Two					
Fall Semester		Cr	Spring Semester		Cr
CSCJ 5XX+	Elective in Sociology	3	CSJ805 or CSCJ 519	Thesis Research <i>or</i> Practicum	3
CSCJ 5XX+	Elective in Sociology	3			
CSCJ 5XX+	Elective in Sociology	3			
<b>TOTAL</b>		<b>9</b>	<b>TOTAL</b>		<b>3</b>
<b>+Must be at 500 or higher course level</b>					

#### Practicum

The practicum provides opportunities for students to gain practical experience in social service or criminal justice agencies and utilize knowledge from the classroom. In this sense, the practicum bridges theory with practice. The department strives to meet the needs of students by placing them in their choice positions at the federal, state, or county levels as well as with certain private agencies and organizations.

#### Graduate Assistantships

A limited number of graduate assistantships through the department are available on a competitive basis for students in Academic Good Standing and provide opportunities in research and professional assignments. Individual faculty members may have graduate assistantships through funded research grants. For details please contact the graduate program coordinator.

#### Master of Arts Degree in Criminal Justice (36 Credits)

##### Program Overview

The **Master of Arts Degree in Criminal Justice** program offers a study of crime and the administration of criminal justice systems. Emphasis is placed on the development of professional skills required for positions of responsibility and leadership in criminal justice service. The Program offers courses with supervised field work for a well-rounded and comprehensive educational experience.

##### Admissions Requirements

Applicants seeking admission to the **Master of Arts Degree in Criminal Justice** must meet the General Admissions Requirements as published in this Catalog. Applicants should have a broad-based background in the social and behavioral sciences or related areas.

##### Program Objectives

1. Provide an in-depth introduction to advanced, concepts and practices of criminology and the criminal justice system.
2. Prepare students to apply research techniques and statistical methodology to policy issues in the criminal justice agency setting.
3. Provide students practical skills for organizational, managerial, and supervisory levels applicable to criminal justice agencies.

4. Train students to identify, analyze, and solve problems at the organizational, inter-organizational, or community levels.
5. Prepare students for advanced studies, research experiences, and careers in criminal justice, criminology or related fields.

### **Student Learning Outcomes**

Students pursuing the **Master of Arts Degree in Criminal Justice** will:

1. Articulate key concepts and theories in criminology and criminal justice.
2. Explain causes of crime and delinquency utilizing major concepts, case law, theoretical perspectives, empirical findings and basic structures of law enforcement, the criminal court system, and corrections.
3. Conduct sound scientific research on issues related to the criminal justice system and criminology.
4. Interpret and explain interdisciplinary nature of criminal justice and ethical issues in law enforcement, courts, and corrections.
5. Communicate effectively, in oral and written formats, current events and developments in the criminal justice system through the use of modern technology to diverse audiences.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this catalog, students pursuing the **Master of Arts Degree in Criminal Justice** must complete the following requirements:

#### **I. Core Courses: (27 Credits)**

- CSCJ 501, Sociological Theory (3)
- CSCJ 502, Criminological Theory (3)
- CSCJ 503, Research Methods I (3)
- CSCJ 505, Statistics I (3)
- CSCJ 514, Law Enforcement Administration (3)
- CSCJ 516, Judiciary System: Court System (3)
- CSCJ 517, The Correctional System (3)
- CSCJ 518, Delinquency and Juvenile Justice System (3)
- CSCJ 603, Statistics II (3)

#### **Elective Courses: (6 Credits)**

- CSCJ 520, Urban Society and Culture (3)
- CSCJ 526, Selected Topics Seminar in Sociology and Criminal Justice (3)
- CSCJ 531, Social Psychology (3)
- CSCJ 559, Deviant Behavior (3)
- CSCJ 562, Social Stratification (3)
- CSCJ 571, International Criminality, National Security, and Terrorism (3)
- CSCJ 579, Culture and Ethnic Relations (3)
- CSCJ 582, Comparative Criminal Justice Systems (3)
- CSCJ 5XX, Other Approved Elective at 500 or higher course level (3)+

#### **II. Thesis Research or Practicum: (3 Credits)**

- CSCJ 805, Thesis Research (3)

*or*

CSCJ 519, Practicum (3)\*

**\*The Practicum must be with an approved criminal justice agency and for a minimum of 480 contact hours. See the graduate program coordinator for details.**

### III. Qualifying Examinations

Students must pass a written Qualifying Examination in Criminal Justice Theory and Research Methods. Students are permitted a maximum of three (3) attempts to pass. To be eligible for the Qualifying Examination, students must have completed a minimum of twenty-seven (27) graduate credits including the following courses:

CSCJ 501, Sociological Theory (3)

CSCJ 502, Criminological Theory (3)

CSCJ 503, Research Methods I (3)

CSCJ 505, Statistics I (3)

CSCJ 518, Delinquency and Juvenile Justice System (3)

### VI. Final Examination

An oral examination covering the student's Thesis Research or Practicum experience.

#### Plan of Study for Master of Arts Degree in Criminal Justice (36 Credits)

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CSCJ 501	Sociological Theories	3	CSCJ 502	Criminological Theories	3
CSCJ 503	Research Methods I	3	CSCJ 518	Delinquency & Juvenile Justice	3
CSCJ 505	Statistics I	3	CSCJ 603	Statistics II	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CSCJ 514	Law Enforcement Adm.	3	CSCJ 5XX+	Elective in Criminal Justice	3
CSCJ 516	Judicial Process: Court Systems	3	CSCJ 5XX+	Elective in Criminal Justice	3
CSCJ 517	Correctional Systems	3	CJ805 <i>or</i> CSCJ 519	Thesis Research <i>or</i> Practicum	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<b>+Must be at 500 or higher course level</b>					

**Practicum**

Students who elect to do the practicum must first complete at least twenty-eight (28) credits of coursework before beginning this field experience. The practicum provides opportunities for students to gain practical experience in the criminal justice system thereby bridging classroom learning with the actual field setting. The department strives to meet the needs of students by placing them in their choice positions at the federal, state, and county levels as well as with some private agencies.

**Graduate Assistantships**

A limited number of graduate assistantships through the department are available on a competitive basis for students in Academic Good Standing and provide opportunities in research and professional assignments. Individual faculty members may also have graduate assistantships through funded research grants. For details please contact the graduate program coordinator.

## **DEPARTMENT OF POLITICAL SCIENCE**

Knowles Hall, Third Floor  
Telephone: (404) 880-8718

**Dr. Kurt Young (Chair)**  
**kyoung@cau.edu**

### **Overview**

The Clark Atlanta University Department of Political Science offers both the Master of Arts and Doctor of Philosophy degrees, the only private HBCU to do so. Over the years, the Department has been among the leading producers of African American political scientists both female and male, and can count among its graduates four college and university presidents, foreign diplomats, heads of international NGOs, and renowned scholars. Also, the department has produced scholars of African, Caribbean, Asian, and European origin, who are working in institutions all over the world.

The Department's faculty teaches and conducts research on a wide variety of topics: urban politics, public policy, elections and voting behavior, environmental justice, women in development, African politics, Caribbean and Latin American politics, Pan- Africanism, conflict and conflict resolution, democratization, religion and politics, and U.S. foreign policy.

Our graduate curriculum begins with facts and knowledge of the political experience of black people in the U.S., the plight of marginalized and oppressed people; we seek a thorough understanding of global political experiences. The contradictions of the U.S. and other political-economic systems are analyzed from an interdisciplinary perspective that promotes deepened theoretical understandings, a search for alternatives, and positive social changes. Utilizing a scholar-activist paradigm, the department seeks to carry out its program through a pattern of human relationships which stress openness, honesty, and a cooperative spirit.

### **Mission**

In harmony with university goals, the mission of the Department of Political Science is to provide a unique learning environment as one of only two such departments offering Doctor of Philosophy, Master of Arts and Bachelor of Arts degrees in political science at Historically Black Colleges and Universities (HBCUs), and the only one of its kind among private HBCUs. Our program intertwines rigorous academic study, community involvement, emphasis on the black political experience, and a progressive global vision through innovative education in political science at both the undergraduate and graduate levels.

Central to its mission, the Department caters to a student body that is predominantly African American, but also includes a significant percentage of international students from Africa, Asia, the Caribbean, and the Americas. The Department of Political Science will continue to play a leading role in producing graduates holding the Ph.D., M.A. and B.A. degrees in political science who teach and work all around the world.

### **Vision**



The Department of Political Science aims to be the major center for black political scholarship in the United States and throughout the African Diaspora, and to become a center of political understanding for change for the disadvantaged of the world.

### **Programs of Study**

Master of Arts Degree in Political Science (30 Credit Hours)

Doctor of Philosophy Degree in Political Science (42 Credit Hours Beyond the Master of Arts Degree)

### **Master of Arts Degree in Political Science (30 Credit Hours)**

#### **Program Overview**

For the M.A. degree in political science, the Department requires a minimum of twenty-four (24) graduate hours, attendance at the weekly Departmental Seminar and a thesis. A final oral examination of the thesis and courses taken by the student is required. Blacks and the American Political System, Scope and Methods of Political Inquiry courses are required of all students pursuing the Master of Arts degree in Political Science. Students will select other courses according to their research interests.

#### **Admissions Requirements**

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Master of Arts Degree in Political Science** must have been awarded a Bachelor's degree with a major in Political Science from a regionally accredited four-year college or university with a minimum cumulative grade point average of 3.0. Consideration may be given to other applicants whose academic preparation in related social sciences suggests that they are capable of successfully pursuing the **Master of Arts Degree in Political Science**. The Graduate Records Examination (GRE) is required.

#### **Program Objectives**

The departmental objective is that students pursuing the **Master of Arts Degree in Political Science** will be able to:

1. Present major theories, concepts, systems, and methodologies used in the study of politics and international relations.
2. Discuss the foundations, institutions, processes and values that shape politics within and among states and the world and emphasize the importance of political engagement.
3. Explore, systematically, issues or problems in national and global political systems.
4. Apply key analytic and theoretical frameworks in the subfields of political science to formulate hypotheses, research questions and evaluate arguments guided by these frameworks.
5. Prepare students for advanced studies and careers in political science or related fields.

### **Student Learning Outcomes**

Students pursuing the **Master of Arts Degree in Political Science** will:

1. Identify and analyze the structure and operation of the U.S. and other political systems.
2. Construct and evaluate analytical and logical arguments in national and global politics.
3. Communicate effectively in oral and written formats issues on political systems to diverse audiences.
4. Explore the theoretical and practical values of national and international political systems, political engagement, and global citizenship.
5. Identify and gather information from credible primary and secondary sources to conduct qualitative and/or quantitative research.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Master of Arts Degree in Political Science** must satisfy the following:

- 24 hours beyond the B.A. degree
- 6 additional credit hours are awarded upon the satisfactory completion of the thesis
- Note: The Department may require some students to take additional hours of coursework.

#### **I. Required Courses: 6 Credits** CPSC 500, Departmental Seminar (0)

CPSC 553, Blacks and the American Political System (3)

CPSC 602, Scope and Methods of Political Inquiry (3)

#### **Electives in Political Science: 18 Credits**

Students may choose courses from the following subfields:

##### **African Politics**

CPSC 572, International Relations of African States (3)

CPSC 590, African Political Institutions (3)

CPSC 591, Government and Politics of Modern Africa (3)

CPSC 595, Seminar in African Politics (3)

CPSC 596, Politics in Southern Africa (3)

CPSC 598, African Political Economy (3)

CPSC 599, Social Cleavages and Political Conflict in Africa (3)

##### **Comparative Politics**

CPSC 529, Comparative Political Systems (3)

CPSC 530, Government and Politics of Latin America (3)

CPSC 531, Politics in Developing States (3)

CPSC 532, Political Institutions of China (3)

CPSC 534, Comparative European Government (3)

CPSC 535, The Politics of Revolutionary Change (3)

CPSC 536, Comparative Political Parties (3)

CPSC 537, Government and Politics of the Caribbean (3)

CPSC 538, Seminar on Asian Politics (3)

CPSC 539, Third-World Women and Development (3)

CPSC 540, The Politics of the Multinational Corporation (3)

CPSC 541, Politics and Education (3)

CPSC 542, Seminar on Comparative Politics (3)

### **International Politics**

- CPSC 533, Chinese Foreign Policy (3)
- CPSC 570, International Relations (3)
- CPSC 571, Japanese Politics and Foreign Policy (3)
- CPSC 573, United States Foreign Policy (3)
- CPSC 574, Third-World Nations and International Politics (3)
- CPSC 575, European Foreign Policies (3)
- CPSC 576, Military Power in International Relations (3)
- CPSC 577, International Organizations (3)
- CPSC 578, Colloquium on International Politics of Asia (3)
- CPSC 579, Politics of International Trade (3)

### **Theory and Methodology**

- CPSC 543, Political Theory (3)
- CPSC 560, African-American Political Thought (3)
- CPSC 600, African Political Ideas (3)
- CPSC 601, Philosophy of Science (3)
- CPSC 603, European Political Philosophy (3)
- CPSC 605, Seminar in Political Theory (3)
- CPSC 606, Feminist Theory (3)
- CPSC 608, Problems in Political Science Research (3)
- CPSC 609, American Political Thought (3)

### **US Government and Politics**

- CPSC 502, Government and Business (3)
- CPSC 503, Public Opinion and Propaganda (3)
- CPSC 504, Techniques of Political Control (3)
- CPSC 505, Political Parties (3)
- CPSC 506, Black Political Parties (3)
- CPSC 507, Politics of Rural United States (3)
- CPSC 508, Seminar in Southern Politics (3)
- CPSC 509, The United States Presidency (3)
- CPSC 510, The Congressional Process (3)
- CPSC 511, American Federalism (3)
- CPSC 513, American Political Process (3)
- CPSC 514, Seminar in Judicial Process (3)
- CPSC 515, Legislative Process (3)
- CPSC 516, Seminar/Internship on the Georgia Assembly (3)
- CPSC 517, Women in Politics Seminar (3)
- CPSC 548, US Constitutional Law (3)
- CPSC 550, The Judicial Process (3)
- CPSC 551, The Constitution and Civil Liberties (3)
- CPSC 552, Seminar in US Government and Politics (3)
- CPSC 554, State and Local Politics (3)

### **Urban Politics**

- CPSC 512, Black City Politics (3)
- CPSC 518, Seminar in Urban Problems (3)
- CPSC 519, Urban Politics (3)

CPSC 520, Politics of Public Finance (3)  
CPSC 522, Urban Political Movements (3)  
CPSC 523, Atlanta City Politics (3)  
CPSC 525, Political Demography and Urban Change (3)  
CPSC 526, Approaches to the Study of Urban Politics (3) CPSC 640, Independent Research (3)

## **II. Departmental Seminar**

The Department of Political Science Graduate Seminar is a long-standing tradition that is central to the vision and mission of the graduate program. The Departmental Seminar brings together all faculty and students in a required weekly discussion that includes:

- Departmental orientation
- An exchange of ideas and understandings about political theory, praxis, and contemporary issues often with invited guests
- Presentations of faculty and student research
- Student organization meetings

Departmental Seminar attendance is mandatory. Students in the M.A. program are required to attend until the formal acceptance of their thesis proposal. Students receiving extended financial support beyond the completion of coursework or the formal acceptance master's thesis proposal may be required to attend additional semesters of the Departmental Seminar.

## **III. Research Tool**

Candidates for the Master of Arts degree must demonstrate proficiency in the use of one research tool from among the following: a foreign language, statistical analysis, or computer information systems. Each student in consultation with their adviser will decide which research tool will best facilitate their program of study. The research tool is not counted among the total required political science courses (24).

## **IV. Master's Thesis: 6 Credits**

All students pursuing the **Master of Arts degree in Political Science** must complete a scholarly analysis and presentation of a significant research problem in political science. As a preliminary phase to this process, each candidate must fully constitute a thesis committee and submit and orally defend a thesis proposal that outlines the methodological procedures and theoretical framework that will be employed in completing the proposed research. Students must enroll in at least six (6) hours of thesis research or consultation courses.

Six (6) hours thereof will be awarded upon completion of the thesis. Course options include the following:

- CPSC 701, Thesis Consultation (1 credit hour)\* *or*
- CPSC 705, Thesis Research (3 credit hours)

**\*Students may need to take CPSC701 Thesis Consultation (1 credit) depending on progress toward thesis research.**

## V. Final Examination

An oral examination covering the student's Thesis Research and graduate courses is required.

### Plan of Study\* for the Master of Arts Degree in Political Science (30 Credit Hours)

Year One					
	Fall Semester	Cr		Spring Semester	Cr
CPSC 500	Departmental Seminar	0	CPSC 500	Departmental Seminar	
CPSC 553	Blacks and the American Political System	3	CPCS XXX**	Graduate Elective	3
CPSC 602	Scope and Methods of Political Inquiry	3	CPCS XXX**	Graduate Elective	3
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
Year Two					
	Fall Semester	Cr		Spring Semester	Cr
CPSC 500	Departmental Seminar	0	CPSC 500	Departmental Seminar	0
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
CPSC 701*** or CPSC 705	Thesis Consultation <i>or</i> Thesis Research	1-3	CPSC 701*** or CPSC 705	Thesis Consultation <i>or</i> Thesis Research	1-3
	<b>TOTAL</b>	<b>6</b>		<b>TOTAL</b>	<b>6</b>
<p><b>*Plan subject to change. Graduate students must satisfy all course requirements under faculty advisement.</b>  <b>**All electives must be at graduate level and in Political Science.</b>  <b>***Students may need to take CPSC701 Thesis Consultation (1 credit) depending on progress toward thesis research</b></p>					

## Doctor of Philosophy Degree in Political Science (72 Credits)

### Program Overview

For the Doctor of Philosophy (Ph.D.) degree in political science, the Department requires a minimum of thirty (30) graduate hours of course work beyond the Master's degree. Twelve (12) hours are awarded upon completion of the dissertation. The minimum credit hours requirement for the Ph.D. is forty-two (42) hours beyond the Master's. Blacks and the American Political System, Scope and Methods of Political Inquiry, and Government and Politics of Modern Africa courses are required of all students pursuing the Doctoral degree in Political Science. If any of these courses have been taken in our M.A. program they need not be repeated but the minimum number of credit hours must be satisfied with elective courses.

### Admissions Requirements

In addition to the General Admissions Requirements as published in this Catalog, applicants to the **Doctor of Philosophy Degree in Political Science** should have been awarded a **Master of Arts Degree in Political Science** from a regionally accredited college or university. Consideration may be given to other applicants who have earned a master's degree in one of the social sciences related disciplines. In such cases, students should expect to be admitted conditionally and will normally be

required to take additional credits beyond the minimum to complete degree requirements. Graduate Records Examination (GRE) required.

## **Program Objectives**

The departmental objectives for the **Doctor of Philosophy Degree in Political Science** are to:

1. Introduce students to theoretical, analytic, and substantive approaches to public policy analysis and administration.
2. Prepare students to design and conduct original high-quality research in Political Science
3. Prepare students with skills necessary to communicate, in written and oral formats, significant issues, scholarly works and practices in Political Science to multiple audiences.
4. Train students to teach political science at the postsecondary level.
5. Prepare students for careers in political science or related fields.

## **Student Learning Outcomes**

Students pursuing the **Doctor of Philosophy Degree in Political Science** will:

1. Apply theoretical and literary concepts and analytical approaches to public policy analysis and administration.
2. Review, evaluate and communicate, in written and oral formats, major issues, scholarly debates, and practices in subfields related to Political Science.
3. Utilize methodological skills to design and conduct original scholarly research in the field of Political Science.
4. Synthesize large quantities of information and rigorously evaluate the merits of competing theoretical and empirical arguments.

## **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the **Doctor of Philosophy Degree in Political Science** must complete the following requirements. Doctoral students must complete a minimum of forty-eight (48) graduate credits in residence.

### **I. Required Courses: 9 Credits**

Before being admitted to candidacy, all students must complete the following courses with minimum final grades of "B":

CPSC 500, Departmental Seminar (0)  
CPSC 553, Blacks and the American Political System (3)  
CPSC 591, Government and Politics of Modern Africa (3)  
CPSC 602, Scope and Method of Political Inquiry (3)

### **Electives in Political Science: 21 Credits**

Students may choose courses from the following subfields:

#### **African Politics**

CPSC 572, International Relations of African States (3)  
CPSC 590, African Political Institutions (3)  
CPSC 595, Seminar in African Politics (3)  
CPSC 596, Politics in Southern Africa (3)  
CPSC 598, African Political Economy (3)  
CPSC 599, Social Cleavages and Political Conflict in Africa (3)

### **Comparative Politics**

CPSC 529, Comparative Political Systems (3)  
CPSC 530, Government and Politics of Latin America (3)  
CPSC 531, Politics in Developing States (3)  
CPSC 532, Political Institutions of China (3)  
CPSC 534, Comparative European Government (3)  
CPSC 535, The Politics of Revolutionary Change (3)  
CPSC 536, Comparative Political Parties (3)  
CPSC 537, Government and Politics of the Caribbean (3)  
CPSC 538, Seminar on Asian Politics (3)  
CPSC 539, Third World Women and Development (3)  
CPSC 540, The Politics of the Multinational Corporation (3)  
CPSC 541, Politics and Education (3)  
CPSC 542, Seminar on Comparative Politics (3)

### **International Politics**

CPSC 533, Chinese Foreign Policy (3)  
CPSC 570, International Relations (3)  
CPSC 571, Japanese Politics and Foreign Policy (3)  
CPSC 573, United States Foreign Policy (3)  
CPSC 574, Third World Nations and International Politics (3)  
CPSC 575, European Foreign Policies (3)  
CPSC 576, Military Power in International Relations (3)  
CPSC 577, International Organizations (3)  
CPSC 578, Colloquium on International Politics of Asia (3)  
CPSC 579, Politics of International Trade (3)

### **Theory and Methodology**

CPSC 543, Political Theory (3)  
CPSC 560, African-American Political Thought (3)  
CPSC 600, African Political Ideas (3)  
CPSC 601, Philosophy of Science (3)  
CPSC 603, European Political Philosophy (3)  
CPSC 605, Seminar in Political Theory (3)  
CPSC 606, Feminist Theory (3)  
CPSC 608, Problems in Political Science Research (3)  
CPSC 609, American Political Thought (3)

### **US Government and Politics**

CPSC 502, Government and Business (3)  
CPSC 503, Public Opinion and Propaganda (3)  
CPSC 504, Techniques of Political Control (3)

CPSC 505, Political Parties (3)  
CPSC 506, Black Political Parties (3)  
CPSC 507, Politics of Rural United States (3)  
CPSC 508, Seminar in Southern Politics (3)  
CPSC 509, The United States Presidency (3)  
CPSC 510, The Congressional Process (3)  
CPSC 511, American Federalism (3)  
CPSC 513, American Political Process (3)  
CPSC 514, Seminar in Judicial Process (3)  
CPSC 515, Legislative Process (3)  
CPSC 516, Seminar/Internship on the Georgia Assembly (3)  
CPSC 517, Women in Politics Seminar (3)  
CPSC 548, US Constitutional Law (3)  
CPSC 550, The Judicial Process (3)  
CPSC 551, The Constitution and Civil Liberties (3)  
CPSC 552, Seminar in US Government and Politics (3) CPSC 554, State and Local Politics (3)

### **Urban Politics**

CPSC 512, Black City Politics (3)  
CPSC 518, Seminar in Urban Problems (3)  
CPSC 519, Urban Politics (3)  
CPSC 520, Politics of Public Finance (3)  
CPSC 522, Urban Political Movements (3)  
CPSC 523, Atlanta City Politics (3)  
CPSC 525, Political Demography and Urban Change (3)  
CPSC 526, Approaches to the Study of Urban Politics (3)  
CPSC 640, Independent Research (3)

### **Departmental Seminar**

The Department of Political Science Graduate Seminar is a long-standing tradition that is central to the vision and mission of the graduate program. The Departmental Seminar brings together all faculty and students in a required weekly discussion that includes:

- Departmental orientation
- An exchange of ideas and understandings about political theory, praxis, and contemporary issues often with invited guests
- Presentations of faculty and student research
- Student organization meetings

Departmental Seminar attendance is mandatory. Students in the Ph.D. program are required to attend until the successful completion of the comprehensive examination. ~~Doctoral students must attend at the very minimum, three (3) full semesters of the Departmental Seminar.~~ Students receiving extended financial support beyond the completion of coursework or the comprehensive examination may be required to attend additional semesters of the Departmental Seminar.

### **III. Research Tools**

Candidates for the Ph.D. degree must demonstrate proficiency in the use of two research tools from among the following: a foreign language, statistical analysis, or computer information systems. Each



student, through consultation with their adviser, will decide which research tools best align with their program of study.

### **III. Comprehensive Examination**

Students seeking the **Doctor of Philosophy Degree in Political Science** must pass a comprehensive Examination prior to admission to candidacy. The comprehensive Examination includes four (4) written examinations in subfields of each candidate's choice followed by a formal oral examination based upon each candidate's responses to written examination questions. The political science subfields from which students may select to be examined include:

1. African Politics
2. Comparative Politics
3. International Politics
4. Methodology
5. Pan-African Politics
6. Political Economy
7. Political Theory
8. U.S. Government and Politics
9. Urban Politics
10. Women in Politics

Students are permitted two (2) attempts to successfully complete the Comprehensive Examination.

### **IV. Dissertation Research: 12 Credits**

- CPSC 801, Dissertation Consultation (1)\* *or*
- CPSC 805, Dissertation Research (12)

**\*Students may need to take CPSC 801 Dissertation Consultation (1 credit) depending on progress toward dissertation research**

- V. All students pursuing the **Doctor of Philosophy Degree in Political Science** must complete a scholarly analysis and presentation of a significant research problem in political science. As a preliminary phase to this process, each candidate must fully constitute a dissertation committee and submit and orally defend a dissertation proposal that outlines the methodological procedures and theoretical framework that will be employed in completing the proposed research. Students must enroll in at least twelve (12) hours of dissertation research or consultation courses. Twelve (12) hours thereof will be awarded upon completion of the thesis

### **VI. Final Examination**

The final examination for **Doctor of Philosophy Degree in Political Science** candidates entails an oral defense of the doctoral dissertation. Members of the candidate's formal dissertation committee, as well as the Chair of the Department of Political Science and interested faculty and students are invited to attend this oral defense.

**Plan of Study\* for the Doctor of Philosophy Degree in Political Science (42 Credit Hours Beyond the Master of Arts Degree)**

<b>Year One</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CPSC 500	Departmental Seminar	0	CPSC 500	Departmental Seminar	0
CPSC 553	Blacks and the American Political System	3	CPCS XXX**	Graduate Elective	3
CPSC 591	Government and Politics of Modern Africa	3	CPCS XXX**	Graduate Elective	3
CPSC 602	Scope and Method of Political Inquiry	3	CPCS XXX**	Graduate Elective	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<b>Year Two</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CPSC 500	Departmental Seminar	0	CPSC 500	Departmental Seminar	0
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<b>Year Three</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CPSC 500	Departmental Seminar	0	CPSC 500	Departmental Seminar	0
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<b>Year Four</b>					
	<b>Fall Semester</b>	<b>Cr</b>		<b>Spring Semester</b>	<b>Cr</b>
CPSC 500	Departmental Seminar	0	CPSC 500	Departmental Seminar	0
CPCS XXX**	Graduate Elective	3	CPCS XXX**	Graduate Elective	3
CPSC 801*** <i>or</i> CPSC 805	Dissertation Consultation <i>or</i> Dissertation Research	1-6	CPSC 801*** <i>or</i> CPSC 805	Dissertation Consultation <i>or</i> Dissertation Research	1-6
	<b>TOTAL</b>	<b>9</b>		<b>TOTAL</b>	<b>9</b>
<p><b>*Plan subject to change. Graduate students must satisfy all course requirements under faculty advisement.</b></p> <p><b>**All electives must be at graduate level in Political Science.</b></p> <p><b>***Students may need to take CPSC801 Dissertation Consultation (1 credit) depending on progress toward dissertation research</b></p>					

## DEPARTMENT OF PUBLIC ADMINISTRATION

Oglethorpe Hall, Second Floor, Room 280

Telephone: (404) 880-6650

### Overview

The **Master of Public Administration Degree** is a professional degree designed to prepare preservice students for positions in the public sector, nonprofit organizations and to improve the managerial capabilities of those individuals already employed in the public service and in nonprofit organizations. The program offers five areas of specialization: *Human Resources Management, International Administration and Development Management, Nonprofit Leadership and Management, and Public Policy*. Students who earn the Master of Public Administration Degree are prepared for careers at all levels of government, in quasi-public agencies, and in nonprofit organizations. Some graduates have pursued careers in teaching.

### Mission

The Mission of the Public Administration Department at Clark Atlanta University is to educate a diverse group of globally minded students in the core areas of the discipline of public administration in order to prepare them for successful careers in leadership and management in the public and non-profit sectors. The program will be grounded in the tenets of professionalism, social equity, diversity and ethics, as essential foundations for the development of well-credentialed and skilled future public administrators.

### Vision

The Clark Atlanta University Public Administration will become the leading Historically Black University and Colleges' (HBCU) program in the United States. It will train and develop national and global public service leaders who will leverage CAU's rich history and experiences in advocating for diversity, social equity and empowerment to make meaningful contributions to national and international public service organizations. The professional program will produce highly credentialed and skilled public managers and entrepreneurs who will address the challenges posed by the new national and global realities of this century.

### Programs of Study

Master of Public Administration

- Pre-Service Program Option (36 Credits)
- In-Service Program Option (30 Credits)

### Program Objectives

Enshrined in the Department's official purpose is its desire to tailor its program to uphold the virtues of the public service, in terms of producing students whose performance would be governed by fundamental public service tenets, in term of efficient and effective delivery of public services, which is undergirded by the values of public trust, honesty, accountability and ethical conduct.

### Student Learning Outcomes

Students pursuing the **Master of Public Administration Degree** will:

1. Apply ethical standards and values in policy management and decision making for public service organizations to include human resources, budgeting and finance, information management, and technology application processes.
2. Utilize quantitative and qualitative techniques of analysis in areas of public administration to formulate, implement, and evaluate policies and programs, make decisions and solve problems.

Apply theoretical organizational and management concepts of public policy and organizational environment including political, legal, economic and social institutions and processes to address in written and oral formats.

3. Apply theoretical knowledge, practical skills and professional disposition in a real world setting.

### **Admissions Requirement**

In addition to the General Admission Requirements as published in this catalog, admission to the Department requires a bachelor's degree from an accredited institution with a minimum grade point average (GPA) of 2.50 on a 4.00 scale. When selecting students for admission, the faculty considers academic background, work experience, and potential for successfully completing the requirements of the degree.

### **Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the Master of Public Administration – Pre-Service Program Option must complete a total of thirty-six (36) graduate credits. This program of study leading to the degree is developed around a group of core courses designed to provide the student with a general background in the field of public administration. The core group of courses consists of twenty-four (24) credits, two specialty or concentration courses consisting of six (6) credits, one elective or internship course based on an 8 week or 300 hour professional internship consisting of three (3) credits, and one Capstone seminar consisting of three (3) credits leading to the completion and defense of an Exit Paper related to the student's concentration: *Human Resources Management, International Administration and Development Management, Nonprofit Leadership and Management, and Public Policy*.

### **Exit Paper**

All pre-service students are required to write an Exit Paper, which focuses on a problem area or issue identified during the internship experience or mentoring program. In-service students who have the internship waived due to previous work experience may select topics within their chosen area of specialization in consultation with their advisors. The Guide for the Preparation of the Exit Paper is available in the Public Administration Department.

The following MPA degree plan is 36 credit hours (pre-service):

**Plan of Study for Master of Public Administration**

**Pre-Service Program Option (36 Credits)**

Year One					
	Fall Semester	Credit		Spring Semester	Credit
PAD 501	Public Administration: Survey of the Field	3	PAD 504	Economics for Public Administrators	3
PAD 502	Organizational Theory and Bureaucratic Behavior	3	PAD 508	Information Management Systems for Public Administrators	3
PAD 503	Research Methods & Data Analysis	3	PAD 5XX	Concentration Required Course	3
	<b>Total</b>	<b>9</b>		<b>Total</b>	<b>9</b>
Year Two					
	Fall Semester	Credit		Spring Semester	Credit
PAD 505	Formulation of Public Policy	3	PAD 5XX	Elective Course	3
PAD 506	Human Resources Management	3	PAD 5XX	Concentration Required Course	3
PAD 507	Public Budgeting and Finance	3	PAD 530	Capstone Project Seminar	3
	<b>Total</b>	<b>9</b>		<b>Total</b>	<b>9</b>

**Plan of Study for Master of Public Administration**

**In-Service Program Option 1 (30 Credits)**

Year One					
	Fall Semester	Credit		Spring Semester	Credit
PAD 501	Public Administration: Survey of the Field	3	PAD 504	Economics for Public Administrators	3
PAD 502	Organizational Theory and Bureaucratic Behavior	3	PAD 508	Information Management Systems for Public Administrators	3
PAD 503	Research Methods & Data Analysis	3	PAD 5XX	Concentration Required Course	3
	<b>Total</b>	<b>9</b>		<b>Total</b>	<b>9</b>
Year Two					
	Fall Semester	Credit		Spring Semester	Credit
PAD 505	Formulation of Public Policy	3	PAD 5XX	Concentration Required Course	3
PAD 506	Human Resources Management	3	PAD 5XX	Thesis Consultation (Optional 3 credits)	
PAD 507	Public Budgeting and Finance	3			
	<b>Total</b>	<b>9</b>		<b>Total</b>	<b>3</b>

**Plan of Study for Master of Public Administration  
In-Service Program Option 2 (30 Credits)**

	<b>Fall Semester</b>	<b>Credit</b>
PAD 501	Public Administration: Survey of the Field	3
PAD 502	Organizational Theory and Bureaucratic Behavior	3
PAD 503	Research Methods & Data Analysis	3
	<b>Spring Semester</b>	<b>Credit</b>
PAD 506	Human Resources Management	3
PAD 508	Information Management Systems for Public Administrators	3
PAD 5XX	Concentration Required Course	3
	<b>Summer Semester</b>	<b>Credit</b>
PAD 504	Economics for Public Administrators	3
PAD 5XX	Concentration Required Course	3
	<b>Fall Semester</b>	<b>Credit</b>
PAD 505	Formulation of Public Policy	3
PAD 507	Public Budgeting and Finance	3
	<b>Total</b>	<b>30</b>

**Master of Public Administration – In-Service Program Option (30 Credits)** Program Overview The Public Administration Department provides a modified program for in-service students or for individuals with significant professional service that reduces the required graduate credits from thirty-six (36) credits to thirty-six (30) credits. Included in the reduced requirements is the elimination of one elective course consisting of three (3) credits, and one Capstone seminar consisting of three (3) credits. An Exit Paper based on a topic related to the in-service student's chosen area of specialization is required. The student's advisor must approve the topic of the Exit Paper.

**Degree Requirements**

In addition to the General Degree Requirements as published in this Catalog, students pursuing the Master of Public Administration Degree – In-Service Program Option must complete a total of thirty-six (30) graduate credits. This program of study leading to the degree is developed around a group of core courses designed to provide the students with a general background in the field of public administration. The core group of courses consists of twenty-four (24) credits, and two specialty or concentration courses consisting of six (6) credits. Students may elect one of the four areas of specialization: *Human Resources Management, International Administration and Development Management, Nonprofit Leadership and Management, and Public Policy.*

## **Exit Paper**

All students are required to write and defend an Exit Paper, which focuses on a problem area or issue identified during the job exposure, or in that specialized area. Students who opt out of the internship or mentoring program due to previous work experience or other conflicts may select topics within their chosen area of specialization in consultation with their advisors. The Guide for the Preparation of the Exit Paper is available in the Department of Public Administration.

## **Four Concentrations Are Offered:**

Human Resources Management

International Administration and Development Management

Nonprofit Leadership and Management

Public Policy Analysis

## **CPAD 501: Public Administration: Survey of the Field. 3 Credits**

This is the introductory course in public administration designed to provide students with a broad overview of the field of Public Administration, both as an academic discipline and as a profession. It examines the context in which public administration occurs and its relationship to the social and political environment in which it exists. Students will be exposed to the various functions involved in administration of public policy and how to apply practical solutions to the problem faced in its implementation.

## **CPAD 502: Organizational Theory and Bureaucratic Behaviors. 3 Credits**

This course focuses on the structure, process and role of individuals in organizations emphasizing how and why these components have to be coordinated to efficiently and effectively attain organizational goals and objectives. It defines and examines concepts, models, paradigms and theories in the field of organization theory as the basis for understanding internal and external organizational dynamics.

## **CPAD 503: Research Methods and Data Analyses. 3 Credits**

This course is designed to provide students with an opportunity to study and apply both qualitative and quantitative research methods. While focusing on descriptive research, other research designs and various data gathering techniques are examined. This course provides an understanding of quantitative as well as qualitative techniques for analyzing research data on public programs and administrative problems. Explores the relevancy of quantitative and qualitative analysis to problems administrators face in public agencies. Students will learn to make appropriate use of applied research in decision-making and will utilize computer programming in support of statistical analysis.

## **CPAD 504: Economics for Public Administrators. 3 Credits**

This course is designed to provide public administrators with the fundamental economic background necessary to understand and implement public policy. Macroeconomic and microeconomic theories are used to develop tools that are useful applications.

## **CPAD 505: Formulation of Public Policy. 3 Credits**

This course is designed primarily to acquaint students with the public policy making process in the United States. The goal is to enable students to identify, explain and understand the structure, sources and processes of public policy making, and, to attempt to use models developed by policy analysts and experts to analyze government policies and programs. Particular emphasis will be placed on the socio-economic and political variables that impact upon the policy making processes and on the utility of theoretical knowledge and research in the formulation, implementation and evaluation of public policies in the United States.

## **CPAD 506: Human Resources Management. 3 Credits**

The focus of this course is upon developing a full understanding of the nature of the working relationship which exists between management and the worker within a productive environment. This type of environment, one where emphasis is placed on creating a work situation which is mutually beneficial to both parties, is the primary focus of

the human resource function in public and private organizations. This course provides an overview of the historical nature of human resources management in the public sector, explores legal and constitutional structures, and develops recommendations for establishing and maintaining constructive relationships between these two competing groups.

### **CPAD 507: Public Budgeting and Finance. 3 Credits**

This course includes an overview of the political and legal institutions in the budgetary process. The various contexts of public budgets, including political and economic, are explored. Additionally, students examine the executive and legislative foci on public budgeting. Budgetary analytical processes, operating budgets, capital budgets, and revenue systems are explained to provide students with the ability to plan, develop, and implement budgets in public sector agencies.

### **CPAD 508: Information Management Systems for Public Administrators. 3 Credits**

This course provides an understanding of how to manage information as a resource and information technology as an enabler in public and nonprofit organizations. It places a particular emphasis on ways in which information resources and information technology lend support to operational, tactical, and strategic decision making by frontline, mid-level, and top public administrators. No prerequisites for this course.

### **CPAD 509: State and Local Government Finance. 3 Credits**

This course covers the many aspects of financial management: the need for accurate forecasting, accounting reporting, the players and pressures of the budget cycle; the importance of local revenue sources; the need for sound management of debt, cash, inventory, purchasing and risk. This course focuses on management principles and practices while outlining the financial and economic context within which financial management takes place.

### **CPAD 510: Program Design Implementation and Evaluation. 3 Credits**

This course introduces students to the importance of program design, implementation and evaluation in the field of public administration. It highlights essential steps and issues involved in the design of effective public programs and underscore the need to conduct good evaluation for these programs. In addition, the course examines how social science knowledge can enhance the design and evaluation of public programs.

### **CPAD 511: Applied Urban Management.**

The course will expose the students to the complex problems of managing urban America in the 21st century. Specific emphasis will be placed on the political environment of urban places with their diverse populations configured in dimensions of race, class and economic disparities. The overall goal of the course is to have the students gather general knowledge of urban America and acquire skills that may be applied in managing urban units of government.

### **CPAD 513: Independent Study. 3 Credits**

This course is provided for students requesting special instruction in an approved concentration. Students are given required reading lists for analysis and discussion with the assigned faculty. Students also complete case study analysis and a major research paper on a topic that has prior approval of the faculty. The student learning outcomes reflect those of the specific course for which the independent study is undertaken, e.g., CPAD 521, Principles of community and Economic Development.

### **CPAD 514: Public Management. 3 Credits**

This course is designed to broaden the students' knowledge of the scope and character of managing in the public sector. In addition to exploring the traditional functions and behavior of public managers, this course will place emphasis on the politics of public management. Issues related to ethical behavior in public management will also be explored. Considerable attention will be given to current approaches to improve the management of public organizations.

### **CPAD 515: Comparative Administration. 3 Credits**

Comparative public administration is the systematic study of public administration, policy and management from a



cross-national perspective. It introduces students to a wide range of administrative systems with an emphasis on third world public bureaucracies. Selected administrative systems will be used in the study of comparative administration.

### **CPAD 516: Fundamentals of Social Policy. 3 Credits**

This course examines the approaches utilized by scholars and practitioners in the field of public administration to study and understand social policies in the United States. Socio-economic, political and ideological context within which these policies are formulated as analyzed to enable students to grasp concepts, analytical frameworks, issues and themes in the social policy area. Together, they will also explore creative solutions to some of these policy dilemmas in today's American society.

### **CPAD 517: Labor Management Relations. 3 Credits**

This is an introductory course designed to enhance the knowledge of students in the area of labor management relations and collective bargaining. The primary objectives of this course are to introduce students to the terminology, historical context and current trends in the area of labor management relations as they relates to both the public and private sectors. Due to the legal environment and political context in which the public sector operates it is important to distinguish the differences between the management of labor relations in the public versus the private sector. Finally, this course will allow students to gain hands on experience in resolving labor management issues by examining relevant case studies and participating in various role play simulations.

### **CPAD 518: Strategic Human Resources Management Planning. 3 Credits**

This course gives the student a practical overview of strategic human resources practices as tools for management in today's knowledge-based organization. The organization's need to link the accomplishment of its strategic mission to human resource activities is explored. Emphasis is placed on using individual HR functions for achieving an organization's mission and purpose. Human resources techniques and functions are addressed from the perspective of their ability to provide value-added assistance to achieving goals of the organization.

### **CPAD 519: International Development Administration. 3 Credits**

This course is designed to familiarize students with essential concepts, theories and activities involved in the process of administering development in non-western societies. Since the concept of development is a western construct, the course will contrast the western view of development and administration with non-western perspectives of managing the forces of change, with the help of governmental and other structures; it will also highlight the areas of convergence and divergence of these contending forces of development and administration/management in these societies.

### **CPAD 520: Environmental Sustainability Policy. 3 Credits**

This course is an interdisciplinary analysis of the issues associated with the concepts of sustainability, environmental management, and policymaking. It explores how sustainability influences real-world practice in environmental management, planning, and policy. Students will learn to analyze and evaluate selected case studies illustrating sustainability thinking as it pertains to critical environmental zones and regions, along with global environmental threats. No prerequisites for this course.

### **CPAD 521: Principles of Community and Economic Development. 3 Credits**

This course is designed to introduce students to concepts, theories and methods developed in the study of community and development. Citizens' empowerment, policy formation, and the role of the nonprofit organization will be discussed.

### **PAD 522: Nonprofit Organization Management**

This course will explore traditional functions and behavior of nonprofit managers. Considerable attention will be given to current approaches to improve the management of U.S. nonprofit sector organizations. To this end, this course will approach this process through an in-depth analysis of strategic management and leadership processes, including the role of managing financial, paid staff, volunteer, fund development, governance and informational resources.

**PAD 523: Board Governance and Strategic Leadership**

This course introduces students to strategic leadership issues in the nonprofit sector, focusing on NPO governance (board of directors) and executive leadership roles in strategy formation and implementation. Specifically, it will evaluate strategic and operational management tools necessary to analyze external, competitive, and internal environments.

**CPAD 524: Grant Proposal Writing and Management. 3 Credits**

This course introduces students to various types of government, private and nonprofit grant funding. Specifically, students will evaluate strategies necessary for seeking grant funds, responding to Request for Proposals (RFPs) and developing grant proposal strategies. The course will also focus on sustainability and grant management approaches to funding and overall strategic planning.

**CPAD 525: Sustainable Urban Management. 3 Credits**

This course provides an overview of urban management practices to include, regulatory, programmatic and fiscal methods necessary to sustain urban growth.

**PAD 526: Housing and Community Development Policy. 3 Credits**

This course examines the mechanics of real estate financial markets, including the roles of developers, investors, lenders, tenants, owners, and government. We will address these issues from both a financial and social perspective, including addressing issues of affordability, equity, and sustainability.

**PAD 527: Compensation Management. 3 credits**

This course examines the history, evolution, and contemporary practices of compensation administration and management in the public sector, including pay policy formulation and employee benefits policies. This course will present broad policy issues, managerial concerns, and methods to improve the effectiveness of compensation practices in the public sector.

**CPAD 528: Humanitarian and Disaster Management. 3 Credits**

This course explores the dynamics of humanitarian and disaster assistance in local, national, and global settings. It focuses specifically on major players and their interactions, along with an examination of the role of local, national, and global politics in assistance efforts.

**PAD 529: International Energy & Environmental Policy. 3 Credits**

This course examines the relationships between energy and environment policy to equip students with knowledge of the physical, environmental, technological, economic and political aspects of energy systems. It also explores the conflict between economic and environmental interests over the expansion and integration of renewable energy as part of the attempt to decarbonize energy systems.

**PAD 530: Capstone Project Seminar. 3 Credits**

This course allows students to apply the knowledge, skills, and competencies gained from core and elective courses in the MPA program to a concentration specific problem or dilemma. Students will be guided through the completion and defense an Internship or Applied Research Capstone Project. This course must be taken at the end of the students' degree plan.

**CPAD 531: Thesis Research. 3 Credits****CPAD 532 Thesis Consultation. 1 Credit**

Note: Pre-Service students are required to engage in an internship or mentorship unless waived by their advisor for experience in the field of their concentration.