ACADEMIC DEPARTMENTS
and PROGRAMS
CHAPTER VII
ACADEMIC DEPARTMENTS AND PROGRAMS

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COURSE LISTINGS: AN EXPLANATION

Courses in this catalog are listed first by the discipline code, three letters that indicate the academic discipline (HST for history, for example), followed by three digits. The first of these digits refers to the level of the course; the next two indicate the specific course. Thus ENL 165 is an English course designed for the lower-division student, and the 65 indicates the specific course offering, which is International Short Story. These numbers are followed by the actual course title, and this in turn is followed by letters within parentheses that tell whether the course is liberal arts (A) or professional (B) in nature, and whether it may be used to fulfill one or more of the General Education requirements. A legend for the letters and numbers used in course listings is given below. An example of a course listing follows:

**Explanation**

<table>
<thead>
<tr>
<th>Course Codes</th>
<th>WMS 101 (A,D,S,W) Introduction to Women's Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women's Studies discipline code</td>
<td>Complete Listing</td>
</tr>
<tr>
<td>First digit indicates course level</td>
<td>WMS</td>
</tr>
<tr>
<td>(undergraduate will be 1, 2, 3, or 4)</td>
<td>1</td>
</tr>
<tr>
<td>Second two digits indicate specific course</td>
<td>01</td>
</tr>
<tr>
<td>Official course title</td>
<td>Introduction to Women's Studies</td>
</tr>
<tr>
<td>Liberal Arts credit code</td>
<td>A</td>
</tr>
<tr>
<td>Diversity General Education code</td>
<td>D</td>
</tr>
<tr>
<td>Social Sciences Knowledge Area</td>
<td>S</td>
</tr>
<tr>
<td>Perspectives on Women General Education code</td>
<td>W</td>
</tr>
</tbody>
</table>

Following the course description is further information regarding course credits and semesters when the course will be offered. An explanation of these abbreviations follows:

**Key to Course Listings in this Publication**

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Credits earned by successfully completing the course.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Course is usually offered only in the fall semester.</td>
</tr>
<tr>
<td>Spring</td>
<td>Course is usually offered only in the spring semester.</td>
</tr>
<tr>
<td>Summer</td>
<td>Course is usually offered only in the summer sessions.</td>
</tr>
<tr>
<td>No Semester</td>
<td>Course is offered irregularly or to be announced.</td>
</tr>
</tbody>
</table>

**Course Level Numbers**

- 0–99 Non-credit course
- 100–199 Lower-division undergraduate course; no prerequisites
- 200–299 Lower-division undergraduate credit course; may have prerequisites
- 300–499 Upper-division credit course; normally requires junior status or above
- 500–599 Introductory-level graduate courses that may be available to undergraduates as 400–499 listings
COURSE DESIGNATION CODES
A  Liberal Arts courses
B  Non-liberal Arts courses

GENERAL EDUCATION CODES
C  Comparative Perspective courses
D  Diversity
F  Fine Arts without performance
G  Western Civilization
H  Humanities
I  Contemporary Issues
L  Natural Science with lab
N  Natural Science without lab
O  World Civilizations (Non-Western)
P  Fine Arts with performance
S  Social Sciences
T  Computer Literacy
V  American History
W  Perspectives on Women
DEPARTMENT OF AFRICAN AND AFRICAN - AMERICAN STUDIES

112 Albert W. Brown Building
(585) 395-2470

Chair and Professor: John K. Marah, EdD, Syracuse University; Professor: F. Nwabueze Okoye, PhD, University of California-Los Angeles; Assistant Professor: Michael Boston, PhD, SUNY Buffalo; Assistant Professor and Presidential Fellow: Kenneth Nixon, PhD, JD, SUNY Buffalo; Professor Emeritus: Ena L. Farley, PhD, University of Wisconsin-Madison.

The Department of African and African-American Studies (AAS) articulates, in intellectual terms, the actual life experiences of Africans and people of African descent in North and South America and the Caribbean. Thus, students may utilize studies in AAS for any purpose in order to satisfy personal, educational and professional goals. The AAS major or minor offers students the sensitivity to minority issues and concerns that will stand the graduate in good stead when seeking private- or public-sector employment. Indeed, students who take AAS courses can capitalize on the increasing interest of private-sector employers in recruiting personnel who are aware of minority issues and concerns.

AAS majors go into graduate schools; appointments at federal, state and local levels; various United Nations agencies; and fields as diverse as banking, business, counseling, teaching, international studies, journalism, and labor relations.

Major Program

Basic components of the program, consisting of the core area as well as the supplementary fields within the major, are organized around the liberal arts disciplines. The core area subjects are selected from topics on Africa, on African-Americans in the United States, on the Caribbean and on other parts of the Third World.

Majors must complete 36 credits. These 36 credits must include 12 credits from the basic core and 24 credits from upper-division work offered by the department. After successfully completing 12 credits of introductory work, students are encouraged to select a liberal arts discipline in which to specialize. At least 12 of the 24 credits of required upper-division work must be in the chosen area of specialization.

Required Basic Core (12 credits):

Complete four of the following five courses:

- AAS 100 Introduction to African-American Studies
- AAS 104 Institutional Racism
- AAS 113 Introduction to Afro-American History
- AAS 204 African Politics and Society
- AAS 215 Caribbean History
- AAS 235 Introduction to African-American Literature

Required Upper-division Courses (24 credits):

1. In the area of specialization, at least 12 credits.

2. Electives, by advisement, to complete 24 credits. These remaining 12 credits are selected from the Department of African and African-American Studies or, where necessary, from other departments by advisement from the Department of African and African-American Studies.

Minor Program

Minors must complete 18 credits in courses offered by the department. These must include six credits of basic core courses and 12 additional upper-division credits of department courses.
African and African-American Courses

AAS 100 Introduction to African-American Studies (A). Introduces the student to the multidisciplinary nature of the study of African people in Africa, the Caribbean and in the United States. Acquaints students with the history, religion, sociology, politics, economics, the creative arts, and the psychology of African people in Africa and the Diaspora, with particular emphasis on their positional ties in the past, the present and in the future. Enables students to critically examine the place of the pan-African segment of humanity in light of the contending forces that have and continue to inform our global societies. 3 Cr. Every Semester.

AAS 104 Institutional Racism (A,D). Pursues three major goals designed to enhance students' intellectual understanding of racism. Familiarizes students with the history and development of racist institutions in America. Engages students in an examination of the structure or "anatomy" of contemporary race relations in its interconnections with racial stereotypes and prejudice. Explores the psychological dimensions of racism, that is, how racism manifests itself in individual and group contexts. 3 Cr. Every Semester.

AAS 113 Introduction to Afro-American History (A,D). Cross-listed as HST 113. Examines the historical experience and conditions of persons of African descent within the American historical milieu. 3 Cr. Every Semester.

AAS 203 Africa: Ancient and Precolonial (A). Explores the diversity of people and cultures in Africa from the earliest period of human history; Africa's historical foundation and historical development. 3 Cr.

AAS 204 African Politics and Society (A,D,O). Introduces students to the basic problems confronting Africa as a continent in the contemporary world. 3 Cr.

AAS 213 African Legacy (A). Provides a detailed examination of the nature of Africa's past, with specific attention to the manner in which song, dance, storytelling and history become interwoven into one aspect of life. 3 Cr.

AAS 215 Caribbean History (A). The importance of sugar in the world economy along with the procurement of Africans as free laborers will be evaluated in concert with economies in the Caribbean. Important events such as the Haitian Revolution will be analyzed to determine its effect not only on the Caribbean but the world at large. The objective of this course is to familiarize students with the multitude of social economic and political factors which brought change to the West Indies for a period of 500 years. 3 Cr. Spring.

AAS 232 African Music and Drumming for Dance (A,P). Cross-listed as DNS 232. Provides a study of selected traditional musical instruments for dance accompaniment and the development of performance skills and techniques through studio and live performance applications. Explores traditional styles and their social and artistic needs for formal religious and recreational application, as well as modern educational and cultural usages in African schools and colleges. 3 Cr. Every Semester.

AAS 235 Introduction to Afro-American Literature (A,H). Cross-listed as ENL 235. Provides an introductory survey of the literature of people of African ancestry in the Americas. Acquaints students with major literary figures and significant historical periods through a discussion of issues regarding the relationship between the writers and socio-political and cultural movements, and of questions concerning the socio-cultural function that the black writer serves for his/her community. 3 Cr. Every Semester.

AAS 278 Afro-American Music and Culture (A,F). Cross-listed as MUS 278. Provides a basic history of black American music and related aspects of theatre, dance and literature from the 17th century to today. 3 Cr.

AAS 302 History of South Africa (A). Examines several milestones in South African history, including the Mfecane, the Union Act, the formation of the African National Congress, the rise of the National Party, the Sharpeville massacre, the black consciousness movement, and the Soweto and Sebokeng uprisings. 3 Cr.

AAS 307 Exploring the Black Experience (A,D,O). Cross-listed as ENL 307. Explores the black experience through writing with a detailed examination of African peoples’ social, cultural, and literary responses to the modern zeitgeist. Aims to increase students’ response repertoire and writing abilities about African peoples’ social, cultural and literary traditions. 3 Cr.

AAS 310 Urban Black Politics (A). Provides a study of the historical processes leading to larger urban black populations: forces permitting and restraining the exercise of political power in the urban black context; position of various black leaders and groups and their relationship with urban government; and the need for alternative strategies for the exercise of power. 3 Cr.
AAS 313 Slavery in the Antebellum South (A,D). Cross-listed as HST 313. Provides a study of some of the dynamics of slavery in the South between 1800 and 1860. Examines firsthand accounts of observers and the political, economic and racial implications of this system. Compares US plantation slavery to other slave systems in the Americas. Encourages students to borrow from the disciplines of anthropology, sociology, literature, economics, as well as from political and intellectual history. 3 Cr.

AAS 314 The Black Family (A). Cross-listed as SOC 314. Provides a study of the socio-cultural, political and economic conditions that afflict black family life. Confronts the pejorative tradition as the primary modality for examining black family life; and explores the African antecedents and continuities that have influenced the black family in the US. 3 Cr. Fall.

AAS 315 Contemporary Black Woman (A,D,I,W). Cross-listed as WMS 315. Eclectically explores the various positions and roles played by black women in contemporary times against their historical backdrop. Focuses on the roles of black women in traditional and contemporary contexts in Africa; black women in rural and urban areas and in the Caribbean; and professional black women and their characteristics. 3 Cr. Every Semester.

AAS 317 Prejudice, Personality and Culture (A). Prerequisite: SOC 100; Cross-listed as SOC 317. Explores the historical and social conditions in which prejudice arises; social functions of prejudice and its psycho-social manifestations; the impact of prejudice and discrimination upon social and race relations in mass societies; and theories of prejudice. 3 Cr. Every Semester.

AAS 322 Gospel Music I (B). Cross-listed as MUS 322. Provides history of Black American gospel music and its relationship to contemporary music forms; includes performances of gospel music. 1 Cr.

AAS 330 African Dance II (A). Cross-listed as DNS 330. Prerequisite of AAS 252 or DNS 200. Provides for a study of rhythm through movement games; use of the materials of dance as an introduction to formal dances; African dance in the service of specific social needs; and the background of the dances. Requires performances. 3 Cr.

AAS 332 Urban Economic Problems (A). Cross-listed as ECN 332. Examines important urban economic issues, such as the location of economic activity, the ghetto and poverty, land use, urbanization, housing, urban renewal, transportation, education, crime, public finance, growth and planning. Evaluates local and national policies. 3 Cr.

AAS 339 Writings By African-American Women (A,D,I,W). Cross-listed as ENL 339, WMS 339. Explores literary representations of women in Afro-American fiction from the Harlem Renaissance to today. Examines the degree to which sexism, cultural stereotypes and racism influence the portrayals and functions of women in black American literature. To what extent is the author concerned with women’s issues? How has the emergence of the feminist movement influenced contemporary authors? 3 Cr.

AAS 359 Black Church (A). Cross-listed as SOC 359. Provides for an extended definition of the soul (essence) of the black church, and a critical analysis of the works of exponents of the theology of liberation in the light of the historical experience of black people. 3 Cr.

AAS 360 Africa Today (A,D,I,W). Seeks to deepen students’ understanding of contemporary Africa. Gives attention to issues which have profoundly affected the lives of multitudes on the second largest continent. Includes issues such as slavery, racism, colonialism and neocolonialism, desertification, hunger and malnutrition, civil wars, the problem of refugees, development and underdevelopment, and the reality of winds of change in Mozambique, Angola, Zimbabwe, Namibia and South Africa. 3 Cr. Every Semester.

AAS 367 The African Novel (A,D,I). Cross-listed as ENL 367. Examines major authors and movements in the development of the novel in Africa. Primary emphasis is on the texts themselves, but with attention to their social and historical contexts. 3 Cr.

AAS 404 Cultures of Sub-Saharan Africa (A). Cross-listed as ANT 404/504. Explores the rich African heritage by means of a critical review of selected African ethnographic studies with particular focus on topics such as: subsistence agriculture, trade, kinship, political systems, urban life, and religion. Serves a broad spectrum of students to contribute to the need to understand the increasing global interdependence and cultural diversity of the present age. 3 Cr.

AAS 408 Pan-Africanism (A). Historians of this global movement have tended to represent it as a 20th-century phenomenon. This is an erroneous view since the essentials of the ideology of Pan-Africanism existed years before the word entered dictionaries in 1900. Seeks to grapple with Pan-Africanism ideologically and practically. 3 Cr. Fall.
AAS 410 Apartheid (A,D,I). Attempts to use certain realities of post-1948 South Africa to cast light on a racial conflict that has raged for more than 500 years over the broad issues of hegemony and economic resources. Grapples with issues such as human rights, the role of international capitalism in development and underdevelopment, Balkanization, Pax Africana and human survival. 3 Cr. Spring.

AAS 416 20th Century Afro-American Issues (A,D,I). Deals with the continuing problem of what place black Americans should have in the socio-political scheme, a problem of dramatic contemporary importance because compromise solutions during this century have been short-lived, and because American policies have global implications which could influence foreign policy outcomes in Africa. Requires students to use scholarly articles, monographs and contemporary newspapers as the basis for discussion. 3 Cr. Spring.

AAS 417 Cultural Heritage and the African American Child (A). Explores African-American creativity, as well as the despair African-Americans have and continue to exhibit in response to discrimination and opportunity. Contrasts children's game songs with the black English controversy. Examines the influence of social and educational policies on the behavior of African-Americans. 3 Cr. Every Semester.

AAS 419 Civil War and Reconstruction (A). Cross-listed as HST 419. Surveys the breakdown of the American institutions that led to the Civil War, followed by an examination of the War itself and its controversial aftermath in the Reconstruction era. 3 Cr.

AAS 420 Overseas Seminar in Africa (A). Cross-listed as OAP 420. Consists of lectures, discussions, on-site field trips and opportunities to interact with Africans. Introduces students to various aspects of life in Africa as seen in the history, economy, culture, arts, social change and political development of the country visited. 1-15 Cr.

AAS 428 Racial and Ethnic Relations (A,D). Cross-listed as SOC 428. Studies the role of race and ethnicity in social relations. Examines major theoretical orientations toward racial and ethnic stratification, as well as the consequences of inequality for both majority and minority groups. 3 Cr.

AAS 429 The Civil Rights Years (A). Explores the theme that the Civil Rights Movement (WW II to today) is one of the most significant in our history, one that made America a more democratic society, gave rise to other movements which transformed the face of American culture, changed those who participated in it, and influenced and created a new generation of American leadership. Entails telecourse instruction with print, video and audio materials. 3 Cr.

AAS 433 African Dance III (A). Cross-listed as DNS 433. Prerequisite AAS 330 or instructor's permission. Covers advanced dance for recreation and ceremonial dance, including festival, war, court and ritual forms. Enables students to develop a mental, emotional and aesthetic awareness of the performance of an African dance. Examines the role of the African dance in the service of society in campus and off-campus performances. 3 Cr.

AAS 435 Legal Rights of the Disadvantaged (A,D,I,W). Cross-listed as PLS 435, WMS 435. An issue-oriented course. Provides an understanding of how the US legal system can improve the status of underprivileged persons, such as blacks, Hispanics, women, prisoners, the poor, students, Native Americans, homosexuals, and those with mental and physical disabilities. 3 Cr. Fall.

AAS 460 Modern Africa (A,I). Cross-listed as HST 460. Prerequisite HST 102. As a course in 20th-century African history, surveys major patterns of pre-colonial Africa and examines the colonial experience and African struggles for independence. Also explores the problem of “development” in post-colonial African states. 3 Cr.

AAS 476 The Harlem Renaissance (A). Cross-listed as ARH 476. Surveys painting, sculpture, photography and ceramics from the Harlem Renaissance of the 1920s. Provides an overview of the period including literature, music and dance. 3 Cr.

AAS 485 The Jamaica Seminars (A). Focuses on Caribbean society, and the area's cultural, sociological, economic, and political aspects. Entails field study in Jamaica. 3 Cr.

AAS 494 African Dance Ensemble (A). Cross-listed as DNS 494. Prerequisite AAS 232 and 433. Provides a study of advanced techniques in solo, duet and ensemble experience to explore special areas of drumming and dance; costuming and relationships to dances; and acquaintance with another dance culture and production methods. Entails class studies for lectures, demonstrations and performances. Includes video studies for discussion and examples of performance. 3 Cr.

AAS 499 Independent Study in AAS (A). Arranged in consultation with the instructor-sponsor and in accordance with procedures of the Office of Academic Advisement prior to registration. 1-6 Cr.
AGING STUDIES
INTERDISCIPLINARY MINOR
(585) 395-5506

Overview
An interdisciplinary aging studies minor is available for students interested in the study of aging/gerontology. The 18-credit minor includes courses, as available, in biology, nursing, psychology, recreation and leisure, social work, sociology and women and gender studies. The minor consists of 4 required courses, an elective course, and a field experience related to aging. In addition to a field experience in aging, an elective course that relates to aging may be chosen from a variety of disciplines with the approval of the coordinator.

What is a minor in aging studies?
The interdisciplinary minor in aging studies is designed to meet the needs of students interested in pursuing a career working with or for older adults and their families. This field of study is becoming more prominent as the percentage of older adults increases in the United States and other countries. Students enrolled in the minor have the opportunity to learn about aging from a variety of perspectives and disciplines at SUNY Brockport.

Courses and program
The approved 18-credit interdisciplinary minor may be combined with any other academic major offered by SUNY Brockport. The aging studies minor consists of four required courses, an elective course, and a field experience in aging.

There are a variety of aging related courses and related topics offered by different departments. These courses may be selected individually to develop a concentration to meet student interests or career objectives. The aging studies coordinator can discuss these options.

Faculty and facilities
Aging studies courses are taught by faculty members from different departments of the College working together in a common interest area. They teach and work together in aging studies because of the importance of the area, their interest, and their knowledge.

SUNY Brockport has excellent cooperative arrangements with public and private organizations throughout the region, enabling excellent opportunities for field experiences related to aging studies.

The SUNY Brockport library has a substantial and growing collection of holdings related to aging studies, with interlibrary loan arrangements to meet student needs.

The aging studies minor at SUNY Brockport also has a funded scholarship from the New York State Federation of Home Bureaus.

Career opportunities
Continued growth is expected in employment opportunities that involve work with older adults and their families as more people are living longer and there is a public interest in meeting their needs.

Curriculum: Aging Studies Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWO 476</td>
<td>Issues of Aging in America</td>
<td>3</td>
</tr>
<tr>
<td>BIO 281</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>PSH 436</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>REL 406</td>
<td>Leisure and Aging</td>
<td>3</td>
</tr>
<tr>
<td>________</td>
<td>Approved Aging Studies Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>________</td>
<td>(SWO 499: Independent Study)</td>
<td></td>
</tr>
<tr>
<td>________</td>
<td>An Approved Elective (listed below)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 18
Additional courses that relate to aging studies may be available. Course substitutions may be recommended by the aging studies coordinator.

For more information about the interdisciplinary minor in aging studies, contact: Aging Studies Coordinator, Jason A. Dauenhauer, PhD, MSW, Department of Social Work, SUNY College at Brockport, Brockport, NY 14420, (585) 395-5506, jdauenha@brockport.edu.

DEPARTMENT OF ANTHROPOLOGY
C12 Cooper
(585) 395-2682

Chair and Associate Professor: LouAnn Wurst, PhD, SUNY Binghamton; 2007-2008 Presidential Fellow: Dr. Carl Davila, PhD, Yale University; Professor: Douglas A. Feldman, PhD, SUNY Stony Brook; Associate Professor: Charles R. Edwards, PhD, SUNY Buffalo; Assistant Professor: Pilapa Esara, PhD, Brown University.

What is Anthropology?
Anthropology is the systematic study of humans. Its primary concerns are to:
• understand the origins of human behavior and culture over 60 million years of primate evolution and six million years of human evolution;
• explain the diversity of adaptive strategies, ways of life and value systems developed by humans as they confront the world’s diverse natural, social and artificial environments; and
• put this understanding to practical use in analyzing and solving modern societal problems.

Career Options
The anthropology major and minor provide excellent preparation for postgraduate training and/or careers in applied anthropology, museum work, public and contractual archaeology, education, forensic science, law, health/medicine, international business, marketing, human services, tourism and other fields that require an understanding of human diversity and human adaptability.

Programs and Courses
The program in anthropology at SUNY Brockport is geared toward a core of motivated majors and minors. It stresses interaction between students and faculty; hands-on laboratory, field and career experience; training in research methodology; and mastery of analytical and communication skills. The anthropology major offers two options, one with 37 credits and one with 43 credits. The department also offers an 18-credit general minor. Courses cover four areas:
1. Physical (biological) anthropology: reconstructing human and primate evolution, and understanding contemporary human adaptation;
2. Archaeology: studying culture through material remains with the aim of ordering and describing the events of the past and explaining the meaning of those events;
3. Cultural anthropology: understanding cultural diversity and contemporary sociocultural processes; and
4. Applied anthropology: putting these perspectives to work in identifying, analyzing and solving contemporary human societal problems in fields such as medicine, international development, preservation of cultural and environmental resources, and human services.
**Major in Anthropology**
The Department of Anthropology offers a major that gives students an opportunity to choose between two options depending on their curricular and career needs. Details of the two options are described below.

**Major Requirements**

**Option I. Liberal Arts Anthropology Option (37 credits):**
The Liberal Arts Anthropology Option is a traditional stand-alone major for students who are interested in anthropology but who will probably not enter anthropology as a career, per se. Such students might include those with another major outside of anthropology or students in pre-professional programs such as pre-law, pre-medical, elementary and secondary education certification. Option I provides students with a broad perspective on anthropology by including within it courses in each of three sub-disciplines (socio-cultural anthropology, physical/biological anthropology and archaeology).

**Option I Major Requirements: (37 credits) Credits**

<table>
<thead>
<tr>
<th>A. Introductory courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 100 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 110 Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 120 Introduction to Human Evolution</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Intermediate core courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 200 Ethnographic Experience</td>
<td>3</td>
</tr>
<tr>
<td>ANT 370 Anthropological Theory</td>
<td>3</td>
</tr>
<tr>
<td>ANT 395 Anthropology and Careers</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Three sub-discipline upper-division courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>400 level Physical Anthropology Course</td>
<td>3</td>
</tr>
<tr>
<td>400 level Archaeology Course</td>
<td>3</td>
</tr>
<tr>
<td>400 level Cultural Anthropology Course</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. Anthropological methods:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 394 Research Methods in Cultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E. Additional courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chosen in consultation with advisor to complete total credits</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total: 37**

**Option II. Anthropology as a Profession/Pre-graduate School Option (43 credits):**
An expanded major for students who will probably (1) enter the work force directly as practitioner/applied anthropologists, Cultural Resources Management (CRM) staff, CRM archaeologists, museum staff, Peace Corps volunteers, etc. and/or (2) attend graduate programs in anthropology. This option is founded on the assumption that potential employers and graduate schools seek superior students with a work ethic, research and communication skills, and practical experience they can translate immediately into the job or graduate school. Option II differs from Option I in requiring that students complete an additional collateral course and a senior thesis project. In addition, this option requires that students have a cumulative GPA of 3.25 in anthropology courses in order to register for the Senior Thesis.

**Option II Major Requirements: (43 credits) Credits**

<table>
<thead>
<tr>
<th>A. Introductory courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 100 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 110 Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 120 Introduction to Human Evolution</td>
<td>3</td>
</tr>
</tbody>
</table>
B. Intermediate core courses:
   ANT 200 Ethnographic Experience 3
   ANT 370 Anthropological Theory 3
   ANT 395 Anthropology and Careers 1

C. Three sub-discipline upper-division courses:
   400 level Physical Anthropology Course 3
   400 level Archaeology Course 3
   400 level Cultural Anthropology Course 3

D. Anthropological methods:
   ANT 394 Research Methods in Cultural Anthropology 3

E. Senior Thesis:
   ANT 496 Senior Thesis 3

F. Required collateral course:
   SOC 200 Social Statistics, PSH 202 Introduction to Statistics for Psychology, or equivalent statistics course 3

G. Additional courses:
   Chosen in consultation with advisor to complete total credits 9

Total: 43

Strongly recommended for Options I and II:
Courses in foreign language (four semesters), statistics, computer applications, advanced writing, semester-abroad program, internship or co-op (ANT 462 or BCE 322). For students in Option II, courses ancillary to anthropology may be suggested by advisor if these are relevant to career or graduate school goals. For example, anthropology majors intending to pursue careers and/or graduate work in areas such as museum work, physical anthropology, paleontology, archaeology, conservancy/conservation, medicine, and law will be advised to take additional courses in disciplinary areas relevant to their career goals. Majors may increase chances for a successful career by:

* combining anthropology with a professional or pre-professional program such as teacher certification, pre-law, or pre-medical;
* minoring in a field that complements anthropology (art, communications, psychology, etc.);
* developing skills in areas outside of, but relevant to, anthropology, such as computer science, foreign languages, technical writing or advanced composition;
* completing an internship, field project or service in an area relevant to anthropology; and/or
* experiencing another culture through a credit-bearing semester abroad.

Minor Programs in Anthropology
The department offers a general minor for students who have not chosen a career concentration or major, or who simply want a broad exposure to anthropology. The general minor consists of 18 credits in anthropology distributed as follows:
1. ANT 100;
2. One of the following: ANT 110 or 120; and
3. Four electives selected in consultation with the departmental advisor.
ANT 100 Introduction to Cultural Anthropology (A,O,S). Introduces basic concepts of cultural anthropology by relating them to pressing local and worldwide problems. Includes topics such as the relationships between people and their environments; the impact of technological modernization on traditional cultures; and the practical applications of anthropology in cross-cultural communication, health, economic development and ecology. 3 Cr.

ANT 110 Introduction to Archaeology (A,O,S). Provides an overview of the field of anthropological archaeology while emphasizing the relationship between the past and the present. Topics include the history of archaeology, methods and techniques used to recover archaeological data, and an examination of how data are used to understand and interpret human existence in the past, and exploration of particular case studies and important issues in contemporary archaeology. 3 Cr.

ANT 120 Introduction to Human Evolution (A,D,N). Surveys ecological, biological and behavioral processes underlying human evolution and shaping human behavior. Topics include human's place in the natural world, genetic mechanisms, reconstructing the fossil record, human adaptation and the origins of human culture. 3 Cr.

ANT 200 The Ethnographic Experience (A,S). Prerequisite: ANT 100. Provides an introduction to the study of cultures through selected case studies, or ethnographies. Also provides an in-depth view of specific cultures and the anthropological analysis of them; introduces students to theories and methodologies that frame ethnographic studies, and present a sample of the best in contemporary ethnographic writing. 3 Cr.

ANT 256 Introduction to Forensic Anthropology (A,N). When skeletonized victims of crime, human rights abuses or mass disasters are found, forensic anthropologists help identify victims, reconstruct events surrounding death, and provide legal evidence. Uses case studies from a variety of sources — from the Battle of the Little Big Horn and the Kennedy assassination to the fate of MIAs and the World Trade Center disaster — to examine the biological principles behind forensic anthropology. 3 Cr.

ANT 261 Cross-Cultural Sexuality (A,D,O). Examines human sexuality from a cross-cultural perspective. Reviews the evolution of sex, history of sex research, marriage, incest, sexual practices, gender issues, gender diversity, homosexuality, sexually transmitted diseases, sex industry work, and concepts of physical attractiveness and modesty for Africa, the Middle East, South Asia, East Asia, Oceania, Latin America, the Caribbean, North America and Europe. 3 Cr.

ANT 301 Native Americans: Contemporary Issues (A,D,I). Explores the major issues facing Native Americans (Indians and Eskimos) in the United States today. Emphasizes understanding the varied perspectives of the major parties involved in each issue with particular attention to the Native American position. 3 Cr. Fall.

ANT 303 Native American Women (A,I,W). Cross listed as WMS 307. Representations of Native American women generally conform to two stereotypes: the submissive drudge or the Indian princess. Both ignore the complexity and diversity of Native women's roles in their respective societies. Taught primarily from a Native women's perspective, this course moves beyond the two-dimensional portrait to engage life experience and social institutions, emphasizing strength and endurance, the complementary nature of traditional gender roles and contemporary strategies for cultural survival. 3 Cr.

ANT 307 Gendering the Past (A,I,W). Cross-listed as WMS 307. Explores the relationship between past and present in the context of interpreting gender roles, with a focus on gender in the present versus gender in the past. Teaches students how to evaluate claims or interpretations based on historic or archaeological data. Introduces students to a wide range of historically conditioned gender roles. By examining this diversity, allows students to realize that gender is not a simple or natural construct. 3 Cr.

ANT 312 Culture and Health (A,I,W). Explores the implications of cultural and ethnic diversity for understanding and dealing with health problems in America and around the globe. Emphasizes the importance of cross-cultural understanding and communication for health care, nutrition, education and cultural change. 3 Cr. Spring.

ANT 313 Culture and Disability (A,I,W). Examines “disability” as a cultural construct whose meaning is changing in light of greater public awareness of disability, activism on the part of people labeled as “disabled,” and technological changes. Looks at disability as a reflection of cultural diversity in America, and assesses ways to understand how this diversity can help us maximize all our potentials in a multicultural society. 3 Cr. Fall.

ANT 314 Cross Cultural Perspectives on Aging (A,I). Examines cultural factors underlying
diverse ways of growing old and living as an aged person; myths and stereotypes about the elderly; theories relevant to age and aging; the impact of gender, class and ethnicity on aging; and issues in the US relevant to aging. 3 Cr.

**ANT 315 The Migration Experience: Cultural Perspective (A,I,W).** Economic change, war and political upheaval have created an increasing number of voluntary and involuntary migrants in the contemporary world. Using the holistic approach and cultural insight of anthropology, looks at the migration experience and the role of gender within it, from the decision to leave through adaptation and the resettlement. Considers reproductive, household and extra domestic roles and shifting power relations. 3 Cr. Spring.

**ANT 316 Food and Culture (A,I,W).** Because the consumption of food serves our most basic need, explores how food is one of the most culturally elaborated areas of human experience. Also explores the production, preparation and consumption of food as guided by cultural rules and taboos that define social relations, ethnic identity, gender, and class. Examines contemporary issues that center on food, among them food policy, hunger, obesity, sustainable agriculture and the genetic modification of foods. 3 Cr.

**ANT 317 Culture and Aids (A,D,I).** Explores the cultural, epidemiologic, political, psychological, philosophical, economic, public health, and public policy dimensions of HIV/AIDS on a global level, especially in the United States and sub-Saharan Africa. Focuses upon women and children with AIDS, men who have sex with men and other at-risk populations. HIV prevention strategies, theoretical issues, social stigma and discrimination, the influence of the pandemic on the other aspects of society and culture, and the meaning and importance of HIV/AIDS. 3 Cr.

**ANT 321 Culture Change (A,I,W).** Studies modern world cultures and societies in conflict. Gives particular attention to how the economic, political and social interests of major international powers produce conflict and change throughout the developing world. 3 Cr. Spring.

**ANT 322 Culture and Power (A,I).** Explores how powerlessness is experienced by many people in society today. Requires students to study cases from different cultures, develop conceptual frameworks for analyzing them, and then apply principles derived from the case studies to situations where the exercise of power becomes a problem for them as individuals or as members of groups to which they belong. 3 Cr.

**ANT 323 Anthropological Perspectives on Global Issues (A,I).** Global warming, habitat destruction and species extinction, bioterrorism, nuclear war, nanotechnology, space exploration, Neoconservatives, the religious right, Islamic fundamentalism, Israel and the Palestinians, American hegemony, the rise of China, immigration policy, income inequality, foreign policy, globalization, health disparity, HIV/AIDS, bird flu, and culture change. This course will examine these and other global issues from an anthropological perspective, primarily using the New York Times. 3 Cr.

**ANT 330 World Poverty and Underdevelopment (A,I).** Investigates the systemic nature of underdevelopment as a process; and its causes and its implications for people in all of the world’s sociocultural systems. Uses a number of issues to examine the systemic nature of underdevelopment. 3 Cr. Fall.

**ANT 332 China in Transition (A,I).** Explores the social, cultural, political and economic changes that have taken place in China in the 20th century. Examines how these changes have affected traditional Chinese society and discusses their continuing impact on social life, cultural values and social behavior in contemporary China. 3 Cr. Every Semester.

**ANT 335 The Anthropology of Islam: A Dialogue (A).** Views of “Islamic society” presented by Western anthropologists often contrast with Islamic social and religious thought. Thematic units contrast western ethnographic works to classical and modern Arabic sources. The main objectives are to familiarize students with the main issues in the study of “Islamic society,” and to help them acquire a broad perspective on the encounter between Islam and the West. 3 Cr.

**ANT 363 Witchcraft and Magic (A,D,I,W).** Examines anthropological perspectives on the witchcraft phenomenon. Studies witchcraft beliefs and practices in the 16th and 17th centuries from an ethnohistorical perspective and magic practices among non-Western cultures in Asia, Africa, Oceania and Latin America. Provides a cross-cultural comparison of witchcraft beliefs and practices in past and present societies. 3 Cr.

**ANT 365 Contemporary Lesbian and Gay Cultures in America (A,D,I,W).** Explores the history and emergence of lesbian, gay, bisexual, and transgender cultures in the U.S. from the 1940s to present. Topics include the history of the movement before and after Stonewall; the intersections between sexuality and ethnicity, gender, and social status; and urban/rural/suburban differences in attitudes and approaches within the homosexual rights movement. 3 Cr.
ANT 366 Gender in the Islamic World (A,D,I,W). Covers gender in the Islamic world, and goes “beyond the Veil” and women’s “oppression” to deal with the array of culturally-specific discourses that shape men’s and women’s lives in Islamic cultures. Presents a detailed look at Islamic history to make sense out of gender in the contemporary world. 3 Cr.

ANT 370 Anthropological Theory (A). Prerequisite: ANT 100. Gives students a broad understanding of the major American, British and French theoretical schools and anthropology theorists, including cultural materialism, structural-functionalism, structuralism, postmodernism, gender theory, personality and cultural evaluationary theory, diffusionism, cultural ecology, cultural relativism, and globalization. 3 Cr.

ANT 370 Intermediate Topics in Cultural Anthropology (A). May or may not have prerequisites. Topic will vary from semester to semester and cover such areas as nutrition, art, religion, the ethnography of specific regions or ethnic groups, etc. 1-6 Cr.

ANT 380 Intermediate Topics in Archaeology (A). May or may not have prerequisites. Topic will vary from semester to semester and may cover such areas as museum studies, the archaeology of specific geographical regions, etc. 1-6 Cr.

ANT 381 Intermediate Topics in Archaeology (A). May or may not have prerequisites. Topic will vary from semester to semester and may cover such areas as museum studies, the archaeology of specific geographical regions, etc. 1-6 Cr.

ANT 382 Intermediate Topics in Physical Anthropology (A). May or may not have prerequisites. Topic will vary from semester to semester and might include such areas as the human adaptation, primatology, the paleontology of specific geographic regions, etc. 1-6 Cr.

ANT 394 Research Methods in Cultural Anthropology (A). Prerequisite: ANT 100. Provides an introduction to the art and science of field research in cultural anthropology. Provides hands-on experience with selected research techniques and analysis of data. 3 Cr.

ANT 395 Anthropology and Careers (A). Explores career selection directly relevant to the major as well as the application of anthropological training to a broad range of careers. Students explore career possibilities through use of the Career Services Center and other local resources, personal contacts with alumni and others, and guest lectures by practicing anthropologists. Develops skills in curriculum planning, resume writing, job searching. 1 Cr. Fall.

ANT 401 Native American Art and Culture (A). Prerequisite: ANT 100 or ARH 201, or instructor’s permission. Native-American visual arts (North of Mexico) viewed within the context of Native American cultures and the frame work of anthropology. Explores Native-American arts by culture areas and their roots, traditional expressions, changes with European contact, and contemporary expressions. 3 Cr. Spring.

ANT 405 Applied Anthropology (A). Prerequisite: ANT 100. As a subfield using anthropological perspectives to analyze and provide solutions for societal problems in the US and globally, uses case studies and hands-on projects. Explores the theoretical, practical and ethical implications of applied anthropology. Intended primarily for students who will ultimately address a variety of applied problems in multicultural or non-Western settings. 3 Cr.

ANT 412 Medical Anthropology (A,I,W). Prerequisite: ANT 100. Explores the implications of cultural and ethnic diversity for understanding and dealing with health problems in America and around the globe. Emphasizes the importance of cross-cultural understanding and communication for health care, nutrition, education and cultural change. 3 Cr.

ANT 440 Historical Archaeology (A). Surveys the field of American historical archaeology. Examines the methods and theories for the archaeological investigation of the recent past. Explores the insights gained on particular social issues, such as class, gender, ethnicity, and slavery, where archaeology has played a role. 3 Cr.

ANT 441 Archaeological Analysis (A). Prerequisite: ANT 100 or 442, or instructor’s permission. Presents contemporary laboratory methods used to identify patterns in artifacts and field data recovered from archaeological site surveys and excavations. Students learn to analyze, interpret, manage, and conserve artifacts and field data. 3 Cr. Spring.

ANT 442 Field Methods in Archaeology (A). As a field-based course, introduces students to the methods used by archaeologists to collect data in the field. Allows students to participate in an archaeological dig at an actual site off-campus, and perform all the duties involved in that work, with activities including survey mapping, testing, excavation, documenting and recording finds, and processing artifacts in the lab. 1-6 Cr.
ANT 445 Teaching Archaeology in Elementary Schools (A). Explores strategies archaeologists use to collect, process and interpret data. Provides the framework to explore strategies for integrating archaeology as a way of knowing across the elementary curriculum. 3 Cr.

ANT 447 North American Archaeology (A,C). Provides an overview of the history of humans in North America focusing on the United States, from earliest settlement to the recent historical period. Explores recent research on issues such as peopling of the New World, variation in gatherer - hunter adaptation, the development of agriculture, the nature of Chiefdoms, the rise of the state, and modern political aspects of the archaeology of indigenous peoples. 3 Cr.

ANT 450 Primate Behavior and Adaptation (A). Explores the evolution, behavior, and adaptations of living non-human primates, with particular emphasis on (1) field studies of free ranging primates; (2) social and protocultural behavior in primates; and (3) relevance of primates for understanding the roots of animal behavior in general and human behavior in specific. 3 Cr.

ANT 456 Forensic Anthropology (A). Explores how forensic anthropology applies skeletal analysis in a variety of settings from criminal investigation to reconstructing what really happened at the Battle of the Little Bighorn. Uses case studies, laboratory exercises and field simulations to explore the roles and techniques of forensic anthropology. Complements interests in anthropology, criminal justice, pre-law, pre-medical, psychology and biology. 4 Cr.

ANT 461 Anthropology Practicum (B). Prerequisite: departmental approval. Allows qualified anthropology majors or minors to earn credit through internships, cooperative education programs, etc. that involve applying anthropological perspectives in work settings (see also BCE 322 listed above). 1-6 Cr.

ANT 462 Anthropology Internship (A). Prerequisite: departmental approval. Allows students to conduct an internship in an off-campus work setting, nonprofit organization, health or social services setting, museum or zoo. Includes the department’s Cultural Anthropology Intern Program in which students maintain a field journal, meet periodically with a faculty advisor, and write a final report. 3-6 Cr.

ANT 470 Anthropology as a Profession (B). There is a growing demand in the public and private sectors for people with college or postgraduate anthropological training. ANT 470 examines and provides hands on experience in the specific skills and issues related to applying anthropology in the workplace. Topics and course exercises include: Anthropological and workplace ethics, research and institutional project design, grand development and writing, anthropological and institutional writing, selecting and obtaining funding for relevant postgraduate training within and outside of Anthropology. 3 Cr. Fall.

ANT 480 Advanced Topics in Cultural Anthropology (A). Similar to ANT 380, except usually has prerequisites or requires instructor’s permission to enroll. 1-6 Cr.

ANT 481 Advanced Topics in Archaeology (A). Similar to ANT 381 except usually has prerequisites or requires instructor’s permission to enroll. 1-6 Cr.

ANT 482 Advanced Topics in Physical Anthropology (A). Similar to ANT 382 except that ANT 482/582 usually has prerequisites or requires instructor’s permission to enroll. 1-6 Cr.

ANT 496 Senior Thesis (A). Prerequisite: departmental approval. Requires students to design, carry out, write and defend a field, laboratory or library research project in collaboration with or under the supervision of an anthropology faculty member. 3 Cr.

ANT 499 Independent Study in Anthropology (A). Established in consultation between student and instructor-sponsor. 1-6 Cr. Every Semester.
DEPARTMENT OF ART
204 Tower Fine Arts Building
(585) 395-2206

Chair and Associate Professor: Phyllis Kloda, MFA, Ohio University; Associate Professor: Debra Fisher, MFA, Ohio State University; Jennifer Hecker, MFA, University of Minnesota; Lori Mills, MFA, Rochester Institute of Technology, School for American Crafts; Jim Morris, MFA, University of Massachusetts at Amherst; Gallery Director and Associate Professor: Timothy Massey, MFA, Ohio State University; Assistant Professors: Christian Carson, MFA, University at Albany; Alisia Grace Chase, PhD, University of Minnesota; Sara DiDonato, MFA, University at Albany; Visual Resource Coordinator, Art/Delta College, Associate Professor: Kitty Hubbard, MFA, Visual Studies Workshop/SUNY Brockport.

I still can find no better definition for the word art than this: nature, reality, truth; but with a significance, a conception, a character which the artist brings out in it, and to which he gives expression; which he disentangles and makes free and clears up.

—Vincent Van Gogh

Art has been defined as many things: ability, process and product. The Department of Art at SUNY Brockport offers courses and programs which integrate the formal, technical, conceptual and historical aspects of the visual arts.

Programs: The Department of Art offers a Bachelor of Fine Arts (BFA) in Studio Art, a Bachelor of Arts (BA) or a Bachelor of Science (BS) in Studio Art, and a minor in art history. Once a student declares a major, a faculty member in the appropriate area will be assigned as academic advisor.

The Department of Art reserves the right to retain students’ work for a limited period and re-produce work for official purposes such as exhibitions, catalogs, teaching aids, and slide lectures. Students are expected to assume the costs of materials they use in their courses. Many studio courses have an additional studio fee for materials used in class.

Resources and Facilities: The Department of Art, located in the Tower Fine Arts Center, has well-equipped studios, two galleries, and a Visual Resource Center, which houses a MacIntosh computer lab and more than 112,000 slides and videotapes. An active Art Students Association organizes critiques, visiting artist programs, field trips and exhibitions. Students at SUNY Brockport have an opportunity to study abroad in the summer program in Faenza, Italy. In addition, students have the opportunity to study the visual arts from a non-Western perspective at the University of Science and Technology, Kumasi, Ghana.

Transfer students: A maximum of 18 transfer credits in art will be accepted by the department toward the studio art major; and a maximum of 39 transfer credits in art will be accepted toward the BFA. Other credits may be used as electives. Credits that correspond to the required courses within the major program may be accepted, as may certain related transfer courses not included in our curriculum. All transfer grades must be “C” or higher to be used to fulfill major requirements.

Studio Art Major (BA/BS)

The studio art major is designed to provide a well-rounded art experience, encompassing two-dimensional and three-dimensional media, art history courses, and a specialty (three levels) in one area. Students majoring in art are encouraged to expand their understanding of art as it relates to other disciplines, cultures, and global concerns.

Studio Art Major Requirements:

In addition to meeting all general SUNY Brockport requirements, studio art majors must complete a total of 36 credits in art and art history as listed below. No more than 54 credits in studio art (or any other single discipline) can be used to satisfy the 120-credit requirement for the BA or BS. A minimum grade of “C” must be attained in all courses in the major.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARH 201</td>
<td>Survey of World Art I</td>
<td>3</td>
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<tr>
<td>ARH 202</td>
<td>Survey of World Art II</td>
<td>3</td>
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<tr>
<td>ART 210</td>
<td>2-D Design or ART 212 3-D Design</td>
<td>3</td>
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<tr>
<td>ART 221</td>
<td>Drawing I</td>
<td>3</td>
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<td>ARH 420</td>
<td>20th-Century Art</td>
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<td>ART 401</td>
<td>Senior Seminar</td>
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<td>Any two two-dimensional courses from the following: (6 credits)</td>
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<td>Painting</td>
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<td>Photography</td>
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<td>Printmaking</td>
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<td>Visual Studies (book arts, film/video, or digital art)</td>
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<td>Drawing (excluding ART 221)</td>
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<td>2-Dimensional Design (if not taken in the above required courses)</td>
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<td>Any two three-dimensional courses from the following: (6 credits)</td>
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<td>Ceramics</td>
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<td>Sculpture</td>
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<td>3-Dimensional Design (if not taken in the above required courses)</td>
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<tr>
<td>Mixed Media</td>
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<tr>
<td>A three-course sequence (specialty) in one of the following areas: (6 credits)</td>
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<td>6</td>
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<tr>
<td>Ceramics</td>
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<td>Sculpture</td>
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<td>Total:</td>
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<td>36</td>
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**The Bachelor of Fine Arts (BFA) in Studio Art**

The BFA is an intensive degree program in studio art, intended for students who plan to pursue a professional career in art or to prepare for graduate study. BFA students work closely with a professor/mentor in their area of concentration, as well as interact with the entire art faculty through the required courses and BFA reviews and BFA walkthrough. BFA students are encouraged to be active in the Art Students Association, which runs Rainbow Gallery, where BFA senior exhibitions take place. BFA students may also take DCE 323 Career Explorations in Art, in which they may receive credit for apprenticeships or internships in artists' studios, galleries or alternative spaces.

Students are admitted to the program by a portfolio review. Those who do not have a portfolio may enroll in the BA or BS program in studio art, and begin work on foundation courses to assemble a portfolio. BFA candidates are reviewed each semester and are expected to maintain a 2.5 minimum overall cumulative SUNY Brockport GPA and a 3.0 GPA in art. If advised to discontinue the program, a student may continue as a studio art major in the BA or BS program.

A minimum grade of “C” must be attained in all courses in the major.

**BFA Requirements**

Candidates for the BFA must meet all general SUNY Brockport requirements and complete a total of 81 credits in art and art history as indicated below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 210</td>
<td>2-Dimensional Design</td>
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<tr>
<td>ART 212</td>
<td>3-Dimensional Design</td>
<td>3</td>
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<tr>
<td>ART 221</td>
<td>Drawing I</td>
<td>3</td>
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<tr>
<td>ART 322</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 330</td>
<td>Digital Art I</td>
<td>3</td>
</tr>
</tbody>
</table>
ART 331  Photography I 3
ART 341  Painting I 3
ART 351  Printmaking I 3
ART 361  Sculpture I 3
ART 371  Ceramics I 3
ART 401  Senior Seminar 3
ART 402  BFA Senior Exhibition 3
ART 403  Mixed Media 3

Required ARH Courses (12 credits)
ARH 201  Survey of World Art I 3
ARH 202  Survey of World Art II 3
ARH 410  Contemporary Art Criticism 3
ARH 420  20th-Century Art 3

Electives in ART, ARH, or related discipline (9 credits)
The following courses are approved electives in the BFA:
ANT 401  Native American Art and Culture 3
DNS 115  Introduction to Dance 3
PSH 352  Sensation /Perception 3
MUS 276  Arts and Humanity 3
MUS 278  African-American Music and Culture 3
PHL 308  The Arts in Society 3
PHL 428  Philosophy of Art 3
THE 202  Stagecraft 3
THE 235  Stage Lighting I 3
THE 244  Costume Construction 3

Concentration in one of the following (21 credits)
Ceramics
Drawing
Painting
Sculpture
Printmaking

Total: 81

Minors in Studio Art
Studio Art: 18 credits, including the following:
ARH 201  Survey of World Art I 3
ARH 202  Survey of World Art II 3
ART 221  Drawing I 3
Nine additional credits of art studio electives

Minor Total: 18

Interdisciplinary Arts for Children: Art Specialty
In addition, the School of Arts and Performance offers an Interdisciplinary Arts for Children Program, in which studio art is one of the specialties. (Note: The art specialty in Arts for Children is not designed to prepare students to become art teachers in the public schools of New York State, but it can be used as an academic major by students who are seeking New York State Certification for teaching general education in public elementary school classrooms.) Students seeking an interdisciplinary major in Arts for Children with a specialty in art are required to complete a 48-credit program consisting of: (1) two interdisciplinary courses, IAC 280 Introduction to Related Arts for Children, and IAC 491 Seminar in Arts for Children; (2) an art specialty of 21 credits; and (3) a 21-credit block consisting of two courses in each of the other three arts
and one approved elective. Students wishing to major in Arts for Children with an art specialty must present and successfully pass a portfolio review conducted by the art specialty advising committee toward the end of the junior year. They are also urged to take additional studio art courses. A minimum grade of “C” must be maintained in all required courses.

For detailed information and a comprehensive listing of courses required in this specialty area, refer to the section Arts for Children-Interdisciplinary Major in this catalog.

Studio and Theory Courses

**ART 101 Visual Art Experience (A,P).** Course fee. An introductory course for students with little or no art experience, designed to broaden their visual vocabulary. Explores the basic elements and principles of art through a sequence of problems to be solved by the execution of original works in various media. 3 Cr.

**ART 110 Art and Artists (A,F).** Students may select ART 110 or ARH 215 as credit toward the Fine Arts requirement (F), but may not receive credit for both. Explores the basic forms of artistic production and the study of aesthetic principles of visual art, and how those principles reveal cultural meaning through lectures, slides, videos, gallery visits, student-teacher dialogues, written assignments and tests. 3 Cr.

**ART 210 Two-Dimensional Design (A,P).** Course fee. An introduction to the elements and principles of two-dimensional visual composition. The course explores visual problem solving and concepts of creating two-dimensional images via line, shape, color, value, etc. Includes lectures, written assignments, demonstrations, and critiques. Assignments include the production of two-dimensional artwork using various media. 3 Cr.

**ART 212 Three-Dimensional Design (A,P).** Course fee. An introduction to the elements and principles of three-dimensional art making. The course explores visual problem solving and concepts of creating three-dimensional artwork via line, form, volume, texture, color, spatial relationships, etc. Includes lectures, written assignments, demonstrations, and critiques. Assignments include the production of three-dimensional artwork using various media. 3 Cr.

**ART 221 Drawing I (A,P).** Course fee. Provides an introduction to the basic elements of drawing and two dimensional imagery; including drawing from natural forms; aesthetic elements, such as line, value, composition, space, perspective, and mark making; and a basic understanding of the development of content in a work of art. 3 Cr.

**ART 311 Introduction to Video (A).** Course fee. (Taught at Visual Studies Workshop, lab hours weekdays at VSW) Provides an introduction to the use of video as a medium for individual expression and creativity. Develops basic video skills (i.e., the operation of the video camera, analogue editing and digital video systems) and fundamental procedures in planning and producing a videotape are presented through demonstrations, lectures and practice sessions. Uses screenings and artists’ presentations to illustrate contemporary work in video. 3 Cr.

**ART 322 Drawing II (A).** Course fee. Prerequisite: ART 221. Provides studio experience using a variety of drawing materials to teach drawing skills and allow students to acquire the necessary background for further study. 3 Cr.

**ART 330 Digital Art I (A).** Prerequisite: ART 210. Course fee. Introduces students to the use of the computer as a tool of art making. Uses multimedia software to create digital art. Encourages students to explore and combine computer-based techniques with traditional studio art techniques. Requires short readings to accompany the assignments to help students contextualize their work within the historical, social and political arena that surrounds the production of computer-based art. 3 Cr.

**ART 331 Photography I (A).** Prerequisite: ART 210. Course fee. (Two sections: SUNY Brockport campus and Visual Studies Workshop.) Explores photography’s creative potential for personal expression. Covers 35mm camera operation, processing and developing film, and printing black and white photographs in the darkroom. During the first half of this class focus is on technical skills. During the second half focus is on the use of the students’ newly found skills and their creative potential. Requires students to have access to an adjustable 35mm camera. 3 Cr.

**ART 332 Photography II (A).** Prerequisite: ART 331. Course fee. (Taught at Brockport Campus and Visual Studies Workshop.) Expands on the basic darkroom skills covered in introductory
photography courses, with an emphasis on the conceptual aspects of image making. Prompts students to experiment with expanded processes such as digital imaging, hand applied photo emulsions, etc. Teaches students how to test equipment accuracy to ensure proper exposures. Employs a variety of assignments using technical tools learned as applied to conceptual themes. Entails lectures and field trips to supplement the studio work. 3 Cr.

ART 333 Introduction to Color Photography (A). Prerequisite: ART 331. (Taught at Visual Studies Workshop) Provides an introduction to color photography. Addresses technical and aesthetic concerns with an emphasis placed on developing a personal color vocabulary. Upon completion, allows the student to be able to use both film and digital color processes; have an understanding of color theory and history; and see the possibilities for expression in color photography. 3 Cr.

ART 341 Painting I (A). Course fee. Prerequisite: ART 221. Provides an introduction to painting and design theory. Emphasizes such design elements as form, texture, line, tone, and the spatial and structural aspects of color through the application of various painting techniques. Uses principally oil and acrylics. 3 Cr.

ART 342 Painting II (A). Course fee. Prerequisite: ART 341. Provides a continuation of ART 341 with emphasis on composition, structure of space, and the human figure. Uses principally oil and acrylic paints. 3 Cr.

ART 351 Printmaking I (A). Course fee. Prerequisite: ART 221. Entails an introduction to printmaking processes including monotype, intaglio and relief processes. Stresses conceptual development, technical skills and compositional elements throughout the semester. 3 Cr.

ART 352 Printmaking II (A). Course fee. Prerequisite: ART 351. Provides advanced skills and techniques from ART 351 and includes bookmaking, papermaking and alternative methods in printmaking. 3 Cr.

ART 358 Introduction to Visual Books (A). (Taught at Visual Studies Workshop) Introduces bookworks, which combines text, images, unexpected materials and unusual bindings, through examples, discussions and demonstrations, including access to outstanding collections. Requires students to work on individual projects, including one-of-a-kind books, and small editions. Emphasizes developing books that integrate word, image, and structure. 3 Cr.

ART 361 Sculpture I (A). Prerequisite: ART 212. Course fee. Familiarizes students with the conceptual, technical, and visual vocabulary of sculpture well enough to create dimensional works of artistic merit and personal expression. Expects students to gain basic skills with materials as well as understanding of sculptural concepts. Designs problems to distinguish between technique and idea in sculpture, and how materials are used to express concepts. 3 Cr.

ART 362 Sculpture II (A). Prerequisite: ART 361. Course fee. Expands student’s knowledge of sculptural materials and techniques, with an emphasis on metal-working through both direct and indirect methods. In addition, allows students to further explore sculptural concepts and 3-dimensional spatial organization as they apply to the completion of class projects. 3 Cr.

ART 371 Ceramics I (A). Prerequisite: ART 212. Course fee. Introduces students to basic hand-building techniques that are used to form objects out of clay. Students address projects in a problem-solving approach which utilizes and develops creative thinking capabilities and technical knowledge about clay as an expressive art material. Covers traditional and non-traditional glazing techniques and applications. 3 Cr.

ART 372 Ceramics II (A). Course fee. Prerequisite: ART 371. Provides further exploration of clay as an expressive material while focusing on production methods utilizing the potter’s wheel. Introduces glaze calculation, oxidation, reduction firing, and formulation of clay bodies. 3 Cr.

ART 381 Metals: Fabrication (A). Prerequisite: ART 212. Course fee. Introduces 3-dimensional design concepts using basic jewelry disciplines. Emphasizes the study of design form through metal-working techniques, using and integrating various materials, metal, wood, plastic, glass, stone and synthetic materials. 3 Cr.

ART 382 Metals: Forging (A). Course fee. Prerequisite: ART 381. Provides a continuation of ART 381. Focuses on intermediate design and studio procedure. 3 Cr.

ART 399 Independent Study in Art (B). Prerequisite: instructor’s permission. May require a course fee. Arranged in consultation with the instructor-sponsor and in accordance with the procedures of the Office of Academic Advisement prior to registration. May be repeated for credit. 1-6 Cr.

ART 401 Senior Seminar (A). Prerequisite: ARH 201 and ARH 202, and ART 221. Class to be taken in the senior year. Requires readings, portfolio development, exhibition preparation, advanced
ART 402 BFA Senior Exhibition (A). A Senior Exhibition is required of all BFA students prior to graduation. Allows students to work with the professor in their area of specialization to produce an exhibition of quality that represents their accomplishments in the program. Covers exhibition design, installation and advertising as well as other pertinent responsibilities and information relative to a successful exhibition. 3 Cr. Every Semester.

ART 403 Mixed Media (A). Course fee. Prerequisites: either ART 210 or ART 212 and ART 221. Explores the content and formal possibilities of the interaction of two- and three-dimensional media. Investigates the process of how ideas take physical form and how artists use mixed media to manifest their ideas. Traditional and non-traditional media will be used to investigate a series of thematic assignments. Group discussion and critiques will be held during the semester. 3 Cr. Spring.

ART 412 Video II (A). Prerequisite: ART 311. (Taught at Visual Studies Workshop, lab hours weekdays during Media Center hours.) Designed for people with prior experience in video, presents advanced techniques for those who wish to further explore the ideas and meaning behind their work in video. Allows students to combine the elements of performance, scripting, sound, computer graphics, and special effects within individual projects. Uses class time to study film, computer, and video techniques, as well as have in-group discussions about the tapes and DVDs created during the course. 3 Cr.

ART 414 Advanced Problems in Visual Studies (A). Provides for reading, advanced projects and discussion of theory and criticism applied to electronic imaging, visual books, digital media and film/video. 3 Cr.

ART 415 16mm Film I (B). Course fee. (Taught at Visual Studies Workshop, lab hours weekdays during Media Center hours.) Provides an introduction to independent 16 mm film production. Focuses on individual expression through script writing, film production and post-production. Includes sessions covering topics such as the history of film, camera operation, the use of light meters, lighting, composition, directing actors, and the principles and techniques of editing. Requires students to demonstrate competence with equipment as a prerequisite for working on individual projects. 3 Cr.

ART 416 16mm Film II (B). Prerequisite: ART 315 or instructor's permission. (Taught at Visual Studies Workshop) Provides a follow-up to basic filmmaking, with a more in-depth analysis of sound production including sync recording, mixing of complex tracks, working with ensemble acting and dialogue. Highlights animation techniques, titling, and counterpoint in editing. Requires students to ready film projects for final post-production and distribution. 3 Cr.

ART 417 Methods of Teaching Art at the Elementary Level (B). Course fee. Prerequisite: introductory art course or instructor's permission. Explores the philosophical and psychological basis for teaching art. Investigates problems of artistic and creative development. Examines methods of teaching art through practice and observation. Includes teaching of art to children. 3 Cr.

ART 418 Documentary Film/Video (A). (Taught at Visual Studies Workshop, lab hours weekdays during Media Center hours.) Provides insight into the practice of documentary film/video making. Introduces and discusses basic tools and the principles of film narration and montage, as they apply to documentary film/video making. In hands-on exercises, allows participants to explore the creative process of interpreting “the world out there” by means of the moving image. 3 Cr.

ART 423 Drawing III (A). Course fee. Prerequisite: ART 322. Provides a continuation of ART 322. Allows for in-depth studio experience, concentrating on drawing the humane, the nature of space, individual exploration of imagery and further experimentation with a variety of media. 3 Cr.

ART 424 Advanced Problems in Drawing (A). Course fee. Prerequisite: ART 423. Provides for intensive drawing, research on concepts, readings, advanced projects, and discussion of theory and criticism as applied to creative drawing. May be repeated for credit. 3 Cr.

ART 430 Digital Art II (A). Prerequisite: ART 330. Course fee. Further develops skills and principles relating to the exploration of the computer as a tool for creating art. Encourages students to do a more advanced exploration and combine computer-based techniques with traditional studio art techniques. 3 Cr.

ART 433 Photography III (A). Prerequisite: ART 332. Course fee. (Taught at Brockport Campus and Visual Studies Workshop.) Explores independent creative projects throughout the semester, emphasizing a continued development of a project. Focuses on print quality, issues of presentation and sequencing, as demonstrated in the work of other photographers and through class discussion. Teaches advanced darkroom skills. 3 Cr.
ART 434 Advanced Problems in Photography (A). Prerequisite: ART 433. Course fee. (Taught at Brockport Campus and Visual Studies Workshop.) Structured for students to gain independence in their working methods. Requires students to locate an area of interest and create a substantial project that reflects a thoughtful and developed investigation. Requires conceptual and technical readings to supplement their work. 3 Cr.

ART 443 Painting III (A). Course fee. Prerequisite: ART 342. Covers advanced painting, painting from life, and the human figure. Emphasizes creative forms of self expression. Intensive painting and research on imagery begins in the second half of the semester. 3 Cr.

ART 444 Advanced Problems in Painting (A). Course fee. Prerequisite: ART 443. Emphasizes personal solutions related to content in the work as well as technical issues in painting, advanced projects, and discussion of theory and criticism applied to creative painting. May be repeated for credit. 3 Cr.

ART 453 Printmaking III (A). Course fee. Prerequisite: ART 352. Allows advanced students to design their individual projects for the semester. Requires a minimum of four projects exploring advanced technical and conceptual development. 3 Cr.

ART 463 Sculpture III (A). Course fee. Prerequisite: ART 362. Allows students to expand their knowledge of materials and techniques used in the production of sculpture. Assignments address contemporary concerns in working three-dimensionally, such as permanence, process and site-specificity. Allows students to gain knowledge and experience with public art, installation art, and performance art. Entails readings to supplement class demonstrations, critiques, slide lectures, and videos on contemporary sculpture. 3 Cr. Every Semester.

ART 464 Advanced Problems in Sculpture (A). Course fee. Prerequisite: ART 463. Students will expand their knowledge of sculptural materials and techniques while working toward the development of their own vision. Individual explorations into various approaches to art making will be encouraged. Information and guidance will be given on documentation and presentation of sculpture for portfolios. May be repeated for credit. 3 Cr.

ART 470 Gallery Management and Exhibition Design (B,T). Course fee. Cross-listed at ARH 480. This course is designed as an intense practicum to prepare students for careers as curators, gallery directors and gallery professionals. Students will actively engage with diverse mediums, arts and curators to develop public exhibitions and programs. Through hands-on experience, students will be challenged to address meanings conveyed consciously and unconsciously by exhibition design and presentation. 3 Cr.

ART 473 Ceramics III (A). Course fee. Prerequisite: ART 372. Emphasizes continued development of creative thinking and problem solving as students address assigned problems and investigate individual areas of interest. Provides students the opportunity to expand their technical knowledge and skills in either hand construction or wheel-thrown techniques. 3 Cr.

ART 474 Advanced Problems in Ceramics (A). Course fee. Prerequisite: ART 473. Provides for individualized, advanced projects, and discussion of theory and criticism applied to the art of ceramics. May be repeated for credit. 3 Cr.

ART 491 Topics in Art Studio (B). Course fee. Provides an upper-division art studio experience. Allows students to earn credit for a special offering not normally a part of regular department curriculum. 1-6 Cr.

ART 499 Independent Study in Art (A). May require a course fee. Arranged in consultation with the instructor-sponsor and in accordance with the procedures of the Office of Academic Advisement prior to registration. May be repeated for credit. 1-6 Cr.
ART HISTORY

Art History Minor

Art history minors must complete a total of 18 credits in the courses listed below. A minimum grade of “C” must be attained in all courses taken for the minor.

Required Courses (6 credits)
- ARH 201 Survey of World Art I
- ARH 202 Survey of World Art II

Electives (12 Credits)

Twelve credits of art history electives are required. It is recommended that art history minors take at least one non-western art course.

Art History Courses

ARH 201 Survey of World Art I (A,G,O). Provides an integrated chronological study of world art from prehistory to the 14th century. Covers western art along with the ancient arts of Asia, Islamic arts, and pre Columbian arts. Teaches students to identify cross-cultural influences and regional stylistic features. 3 Cr. Fall.

ARH 202 Survey of World Art II (A,F,O). Prerequisite: ARH 201. Examines major developments in world art from the 1400s to the present. Students will gain a broad understanding of the history of art making during the modern era, including the European Renaissance, as well as art making in Asia, the Middle East, Africa, and the Americas. Issues of artistic techniques and practices, patronage, power, religion, and aesthetics, as well as societal and cross-cultural influences will be addressed during each time period and with respect to each culture. 3 Cr.

ARH 215 Art in the Making (A,F,O). Studies the elements of art, the artists’ process, and selected works of painting and sculpture to give an appreciation of diverse art creativity throughout the world. Also discusses and uses artists and artworks of selected non-western cultures to illustrate elements of art. 3 Cr.

ARH 310 Women in Art (A,C,W). Cross-listed as WMS 310. Examines the contributions and creations of women to the visual arts throughout history, with an emphasis on the women artists of the last two centuries. Students will gain an understanding of artistic techniques and movements and become familiar with the social and political history of women, in order to understand how such conditions affect artistic production. 3 Cr.

ARH 391 Seminar in Art History (A). Prerequisites: ARH 201 and ARH 202 or instructor’s permission. Explores a specific art historical theme or research topic. Students will be expected to write an in-depth research paper and participate in seminar style discussions. May be repeated for credit (with change of topic). 3 Cr.

ARH 410 Contemporary Art Criticism (A). Prerequisites: ARH 201, ARH 202 and ARH 420. Examines contemporary trends in both art making and art criticism throughout the late 20th and early 21st centuries. Also explores how the art world both reflects and resists societal influences. Critical writing assignments and a verbal/visual presentation by the students will enable them to intelligently assess and comment upon the surrounding visual world. 3 Cr.

ARH 419 Nineteenth Century Art (A). Prerequisites: ARH 201 and ARH 202. Covers the fine and minor arts of 19th-century Europe and America, with emphasis on patronage and the artistic movements that dominated the century. 3 Cr.

ARH 420 Twentieth Century Art (A). Prerequisites: ARH 201 and ARH 202. Examines the major trends and developments of the 20th century, primarily in Europe and the United States. Students will learn how biographical, social, cultural, and political forces influenced various artists. Helps students understand how art making is not a practice in isolation, but an expression of how creators respond to their interior and exterior worlds. 3 Cr.

ARH 424 Medieval Art (A). Prerequisites: ARH 201 and ARH 202. Covers the art and architecture of Europe from the early Christian period to the Fall of Constantinople. Includes an overview of Byzantine Art. 3 Cr.

ARH 425 Italian Renaissance Art (A). Prerequisites: ARH 201 and ARH 202. Examines works of art and architecture from the 15th and 16th centuries in Italy. 3 Cr.
ARH 431 American Art (A). Prerequisites: ARH 201 and ARH 202. Surveys art, architecture, and popular culture from colonial era to the present. 3 Cr.

ARH 441 Art in Europe: Field Study in Selected Topics (A). Prerequisites: ARH 201 and ARH 202. Entails field trips abroad focusing on selected topics in art history. May be repeated for credit. 3-6 Cr.

ARH 450 Egyptian Art (A). Prerequisites: ARH 201 and ARH 202. Studies the art and civilizations of pharaonic Egypt and the ancient Near East from the late fourth millennium BC to the conquest of Alexander the Great, with emphasis on pharaonic Egypt, Phoenicia, and Mesopotamia. 3 Cr.

ARH 451 Art of the Classical World (A). Prerequisites: ARH 201 and ARH 202. Traces the development of Minon, Mycenean, Greek and Roman art and architecture from the second millennium BCE to the fourth century CE. 3 Cr.

ARH 461 History of Photography (A). (Taught at Visual Studies Workshop) Surveys the development of photographic processes and the movements and artists that have influenced photography. 3 Cr.

ARH 465 Alternative Perspectives on Art and Culture (A). Prerequisites: ARH 201 and ARH 202. Examines and explores art and culture from radically different points of view. Attempts to expand awareness of the multiplicity of world cultures by including subjects, voices and imagery that are often subordinated by traditional institutions of the West such as museums and mainstream commercial media. Uses strategies and disciplines including anthropology, women’s studies, subculture, cyborg theory, political activism and liberation pedagogy to see Western art in a different light. Encourages the development of different means of practice in addition to expanded theoretical frameworks for looking at art. 3 Cr.

ARH 470 Asian Art (A). Prerequisites: ARH 201 and ARH 202. Studies Indian, Chinese and Japanese arts from prehistory to the 19th century, with emphasis on painting, sculpture, and the minor arts. 3 Cr.

ARH 474 Islamic Art (A). Prerequisites: ARH 201 and ARH 202. Explores Islamic art, architecture, filmmaking, and culture from the origin of the faith to the contemporary period. Considers art making around the globe in both a religious and cultural context. 3 Cr.

ARH 490 Topics in Art History (A). Prerequisites: ARH 201 and ARH 202. Reserved for different topics not listed in this catalog. May be repeated for credit. 3 Cr.

ARH 491 Seminar in Art History (A). Prerequisite: ARH 201 and ARH 202 or instructor’s permission. Examines in detail selected topics in art history with the emphasis on the exploration of research methodologies in fine arts, and writing papers and sharing them in the class. 3 Cr.

ARH 499 Independent Study in Art History (A). Special project in art history arranged in consultation with the instructor-sponsor in accordance with the procedures of the Office of Academic Advisement before registration. May be repeated for credit. 3-6 Cr.

ARTS FOR CHILDREN – INTERDISCIPLINARY MAJOR
BA or BS

147D Hartwell Hall
(585) 395-5279
afc@brockport.edu
www.brockport.edu/afc

Director and Associate Professor: To be announced; Professor: Oh-Kon Cho, PhD, Michigan State University; Associate Professor: Juanita Suarez, PhD, Texas Women's University; Assistant Professors: Christian Carson, MFA, SUNY Albany; Natalie Sarrazin, PhD, University of Maryland.

The undergraduate Arts for Children Interdisciplinary Program is committed to teaching, scholarship, creative expression, and service related to the education of children in and through the arts. The interdisciplinary major is recognized as unique to the SUNY system and the nation.
It fulfills a major need in providing substantive arts education training to prospective classroom teachers and others interested in the arts. Research shows that arts integration has perhaps the greatest potential to positively affect learning across academic disciplines. The interdisciplinary approach to learning helps students leverage new understandings that could not be obtained through singular discipline studies alone.

The course of study interrelates the knowledge and skills of art, dance, music and theatre, with an in-depth study of one of these areas. Most arts for children majors take part in the classroom teacher certification program. Some combine the major with a second major in an art form (art, dance or theatre) offered by the College. Still others take an entrepreneurial approach to using their skills or pursue graduate studies.

Philosophical, theoretical and interdisciplinary concepts of arts education are emphasized in the major. The arts for children faculty promotes an approach to arts education that fosters inquiry and understanding in aesthetic perception, valuing, creative endeavors, and the study of history and culture. Students learn strategies to nurture creativity and artistic expression in youngsters and to work with children in a variety of settings, such as elementary and preschools, arts institutions, theatre or dance companies, and community centers in rural and urban environments.

The Arts for Children Interdisciplinary Program functions in consortium with Brockport’s Departments of Art, Dance and Theatre (for theatre and music). Majors are required to complete a 48-credit program consisting of:

1. two interdisciplinary courses, IAC 280 Introduction to Related Arts for Children and IAC 491 Seminar in Arts for Children;
2. a 21-credit core in one specialty area: art, dance, music or theatre;
3. a 21-credit block consisting of two courses in each of the other three arts and one approved elective.

Course requirements are specified under the section heading “Program of Study.”

It is highly recommended to combine the arts for children major with certification in childhood education. Admission to Brockport’s NCATE accredited classroom teacher certification program, offered through the Department of Education and Human Development, requires a separate application and admission usually prior to the junior year. Specific advisement is needed for both the Arts for Children major and the teacher certification program. For further details regarding certification, consult the program listed under the Department of Education and Human Development. Students should contact their Arts for Children major advisor and the Department of Education and Human Development as early as possible when planning their course of study.

Students interested in an in-depth study of art, dance or theatre are advised to pursue a major, minor, or take additional courses (maximum of 54 credits) in that discipline. Students are encouraged to participate in study-abroad and internship programs to enhance their knowledge and abilities in arts education.

Acceptance into the Major

Students with an affinity for all arts and the ability to communicate proficiently in at least one art area are encouraged to apply. Potential majors are interviewed by the Program Director prior to admission. Contact the program office to set up an appointment. The Director and student complete an “Intent to Major” form during the freshman or early sophomore year. A student indicates a specialty of art, dance, music or theatre and is assigned an advisor. Formal acceptance into the Arts for Children interdisciplinary major program is granted only after the student has successfully completed:
1) four prerequisite arts courses, one in each art area as designated in the chosen specialty;
2) IAC 280 Introduction to Related Arts for Children; and
3) additional requirements as noted under each specialty area.

Special Note:
Consult the appropriate section under the heading “Program of Study” to determine the courses for the selected arts specialty. Course selection, including prerequisites must be taken under advisement with an arts for children advisor. Upon completion of prerequisite requirements, a “Declaration of Academic Major” form will be filed with the Arts for Children Program Office. A minimum grade of “C” must be attained in all required courses.

PROGRAM OF STUDY
Arts for Children majors must take two interdisciplinary core courses and follow the sequence of courses listed under one of the art specialty areas. The specialty areas are art, dance, music and theatre. Please check important prerequisites and course descriptions as listed below and under respective department headings. Students transferring to SUNY Brockport should inquire regarding the feasibility of transferring course credit from previous institutions. Course credits may transfer but only those that are exact equivalents to courses listed below will be counted.

All Majors
Arts for Children Interdisciplinary Core Courses: (6 credits) Credits
IAC 280 (A)* Introduction to Related Arts for Children 3
IAC 491 (A) Seminar in Arts for Children 3

* Note: this course must be taken after successful completion of prerequisites in art, dance, music and theatre.

Art Specialty
Students wishing to major in arts for children with an art specialty must present and successfully pass a portfolio review conducted by the art specialty advising committee toward the end of the sophomore year. They are also urged to take additional studio art courses and ART 419 Practices of Teaching Art on the Elementary Level (prerequisite: ART 417). ART 210, DNS 115, MUS 105 and THE 281 followed by IAC 280 are prerequisite courses to be completed prior to acceptance as an arts for children major. These courses are marked with an asterisk (*).

I. Required Courses in Art: (21 credits)
ARH 201 (A) Survey of World Art I 3
ARH 202 (A) Survey of World Art II 3
ART 210 (A,P)* Two-Dimensional Design 3
ART 221 (A,P) Drawing I 3
ART 417 (B) Methods of Teaching Art on the Elementary Level 3
Two courses in studio art (see prerequisites listed in the Department of Art section of the catalogue) 6

II. Required Courses in Other Arts Disciplines: (21 credits)
Dance
DNS 115 (A,P)* Introduction to Dance 3
DNS 483 (A) Children’s Dance I 3

Music
MUS 105 (A,P)* Introduction to Music 3
MUS 487 (A) Music and the Child 3
Dance Specialty
An entry audition is required for all dance majors, minors, and arts for children dance specialty majors. Contact the Department of Dance for information and audition packet. DNS 204, DNS 205, ART 101, MUS 300 and THE 281 followed by IAC 280 are prerequisite courses to be completed prior to acceptance as an arts for children major. These courses are marked with an asterisk (*).

I. Required Courses in Dance: (21 credits)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DNS 204 (B)*</td>
<td>Dance Conditioning Laboratory</td>
<td>2</td>
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<tr>
<td>DNS 205 (A)*</td>
<td>Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>DNS 364 (A)</td>
<td>Dance Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>DNS 454 (B)</td>
<td>Studies in Major Dance Styles</td>
<td>2</td>
</tr>
<tr>
<td>DNS 483 (A)</td>
<td>Children's Dance I</td>
<td>3</td>
</tr>
<tr>
<td>DNS 484 (B)</td>
<td>Children's Dance II</td>
<td>3</td>
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One of the following:

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<tr>
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<tbody>
<tr>
<td>DNS 302 (A)</td>
<td>Social/Ballroom Dance Forms</td>
</tr>
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<td>OR</td>
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<tr>
<td>DNS 330 (A)</td>
<td>African Dance II</td>
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<td>OR</td>
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<td>DNS 316 (A)</td>
<td>History and Development of Dance</td>
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<tr>
<td>DNS 306 (A)</td>
<td>Beginning Dance Composition</td>
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<td>OR</td>
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<td>DNS 375 (A)</td>
<td>Introduction to Laban Movement Analysis</td>
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Total including Core: 21

II. Required Courses in Other Arts Disciplines: (21 credits)

Art

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 101 (A,P)*</td>
<td>Visual Art Experience</td>
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<tr>
<td>ART 417 (B)</td>
<td>Methods of Teaching Art on the Elementary Level</td>
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Music

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<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUS 300 (A)*</td>
<td>Music for Dance</td>
<td>3</td>
</tr>
<tr>
<td>MUS 487 (A)</td>
<td>Music and the Child</td>
<td>3</td>
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</table>

Theatre

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<tr>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THE 281 (B)*</td>
<td>Creative Drama</td>
<td>3</td>
</tr>
<tr>
<td>THE 353 (A)</td>
<td>Children's Theatre</td>
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Elective

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<td>THE 365 (A)</td>
<td>Puppet Theatre</td>
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<td>OR</td>
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<tr>
<td>ENL 482 (A)</td>
<td>Children's Literature</td>
<td>3</td>
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Total including Core: 21

Total including Core: 48
Music Specialty

An entrance audition is required. An incoming student should be able to perform voice or on instrument at NYSSMA level IV or above. Contact the Arts for Children Program Office for information. ART 101, DNS 115, MUS 105 and THE 281 followed by IAC 280 are prerequisite courses to be completed prior to acceptance as an arts for children major. These courses are marked with an asterisk (*).

I. Required Courses in Music: (21 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 105 (A,P)*</td>
<td>Introduction to Music</td>
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<tr>
<td>MUS 487 (A)</td>
<td>Music and the Child</td>
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<tr>
<td>MUS 488 (B)</td>
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From the following: (9 credits)

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNS 232 (A,P)</td>
<td>African Music and Drumming for Dance (3)</td>
<td></td>
</tr>
<tr>
<td>MUS 130 (B)</td>
<td>Beginning Piano Class (2)</td>
<td></td>
</tr>
<tr>
<td>MUS 230 (B)</td>
<td>Advanced Piano Class (2)</td>
<td></td>
</tr>
<tr>
<td>MUS 139 (B)</td>
<td>Class Voice I (2)</td>
<td></td>
</tr>
<tr>
<td>MUS 239 (B)</td>
<td>Class Voice II (2)</td>
<td></td>
</tr>
<tr>
<td>MUS 300 (A)</td>
<td>Music for Dance (3)</td>
<td></td>
</tr>
<tr>
<td>MUS 399 (A)</td>
<td>Independent Study in Music (1-3)</td>
<td></td>
</tr>
<tr>
<td>MUS 413 (A)</td>
<td>American Music (3)</td>
<td></td>
</tr>
<tr>
<td>MUS 414 (A)</td>
<td>American Musical Theatre (3)</td>
<td></td>
</tr>
<tr>
<td>MUS 485 (A)</td>
<td>American Folk Music (3)</td>
<td></td>
</tr>
<tr>
<td>MUS 499 (A)</td>
<td>Advanced Independent Study in Music (1-3)</td>
<td></td>
</tr>
</tbody>
</table>

II. Required Courses in Other Arts Disciplines: (21 credits)

Art

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101 (A,P)*</td>
<td>Visual Art Experience</td>
<td>3</td>
</tr>
<tr>
<td>ART 417 (B)</td>
<td>Methods of Teaching Art on the Elementary Level</td>
<td></td>
</tr>
</tbody>
</table>

Dance

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNS 115 (A,P)*</td>
<td>Introduction to Dance</td>
<td>3</td>
</tr>
<tr>
<td>DNS 483 (A)</td>
<td>Children’s Dance I</td>
<td>3</td>
</tr>
</tbody>
</table>

Theatre

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 281 (B)*</td>
<td>Creative Drama</td>
<td>3</td>
</tr>
<tr>
<td>THE 353 (A)</td>
<td>Children’s Theatre</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 365 (A)</td>
<td>Puppet Theatre</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL 482 (A)</td>
<td>Children’s Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Total including Core: 48

Theatre Specialty

Arts for children theatre specialty students must participate in the production program of the Department of Theatre, and are required to participate in auditions for faculty-directed productions based on department guidelines. THE 201 or 202, THE 281, ART 101, DNS 115 and MUS 105 followed by IAC 280 are prerequisite courses to be completed prior to acceptance as an arts for children major. These courses are marked with an asterisk (*).
I. Required Courses in Theatre: (21 credits)
   Technical
   THE 201 (A,P)*  Theatre Arts
   OR
   THE 202 (B)*  Stagecraft 3
   Performance
   THE 221 (A)  Acting I 3
   Child Drama
   THE 281 (B)*  Creative Drama 3
   THE 353 (A)  Children’s Theatre 3
   THE 365 (A)  Puppet Theatre 3
   THE 483 (B)  Creative Drama Practicum 3
   History (choose one of the following)
   THE 314 (A,C)  History of Theatre I: Classical through Renaissance 3
   THE 315 (A)  History of Theatre II: Romanticism through Modern 3
   THE 319 (A,U,W)  Play Analysis 3

   II. Required Courses in Other Arts Disciplines: (21 credits)
   Art
   ART 101 (A,P)*  Visual Art Experience 3
   ART 417 (B)  Methods of Teaching Art on the Elementary Level 3
   Dance
   DNS 115 (A,P)*  Introduction to Dance 3
   DNS 483 (A)  Children’s Dance I 3
   Music
   MUS 105 (A,P)*  Introduction to Music 3
   MUS 487 (A)  Music and the Child 3
   Elective
   ENL 482 (A)  Children’s Literature 3

   Total Including Core: 48

Interdisciplinary Courses For All Arts For Children Specialties

IAC 280 Introduction to Related Arts for Children (A). Prerequisite: Consult with program advisor to choose four introductory arts courses, one in each area: art, dance, music, theatre. Covers the unique aspects of art, dance, music, and theatre, and relationships among the arts: theory, discussion, inquiry, and experiences in creative process. Must be taken before declaring a major in arts for children. 3 Cr.

IAC 399 Independent Study in Arts for Children (A). Prerequisite: Instructor’s permission. Arranged in consultation with instructor-sponsor in accordance with procedures of Office of Academic Advisement prior to registration. 1-3 Cr.

IAC 450 Performances for Young Audiences (A). Prerequisite: Instructor’s permission. Explores performance and staging techniques for young audiences; develops skills in improvisation and ensemble playing; prepares shows involving art, dance, music, and theatre; tours and performs for and with young audiences. 1-4 Cr.
IAC 490 Arts for Children Special Topics Workshop (B). Prerequisite: Instructor’s permission. Provides opportunities for arts for children students to focus for a full semester on meaningful current topics which cannot be developed fully in other curricular offerings. Both theory and/or art making may serve as content. 2-6 Cr.

IAC 491 Seminar in Arts for Children (A). Prerequisites: Completion of required arts for children specialty area courses. Examines issues and representative theories, program development and evaluation, development of leadership skills, and ability to utilize arts resources. 3 Cr. Spring.

IAC 492 Internship in Arts for Children (A). To provide theoretical and practical experience for exploring solutions to selected problems and issues in interdisciplinary arts for children. A student, who will be placed in an organization as an intern, will work on projects mutually agreed between the student, supervisor in the organization, and instructor. 1-3 Cr.

IAC 499 Independent Study in Arts for Children (A). Prerequisite: Instructor’s permission. Arranged in consultation with instructor-sponsor in accordance with procedures of Office of Academic Advisement prior to registration. 1-3 Cr.

All other course descriptions for the Interdisciplinary Arts for Children program can be found in the Art, Dance, Music and Theatre sections of this catalog.

ASIAN STUDIES — SEE INTERNATIONAL STUDIES

DEPARTMENT OF BIOLOGICAL SCIENCES

103 Lennon Hall
(585) 395-2193
FAX: (585) 395-2741
E-mail: tlasal@brockport.edu

Chairman and Professor: Stuart Tsubota, PhD, University of California-Berkley; Professors: Thomas Bonner, PhD, University of Cincinnati; Provost and Vice President for Academic Affairs and Professor: Anne Huot, PhD, University of Vermont; Vice Provost and Associate Professor: P. Michael Fox, PhD, University of Illinois-Urbana; Associate Professors: Craig Lending, PhD, University of Wisconsin-Madison; Rey Sia, PhD, Columbia University; Assistant Professors: Laurie Cook, PhD, University of Rochester; Tracey Householder, PhD, University of Rochester; Adam Rich, PhD, SUNY at Stony Brook.

The Department of Biological Sciences offers a major in biological sciences and a major in medical technology, as well as a minor in biological sciences. Both the major and minor in biological sciences are designed for students with an interest in one or several of the many aspects of the life sciences. They are designed to provide excellent preparation for postgraduate training and careers in biomedicine, health and secondary education, as well as other fields that require an understanding and practice of scientific reasoning and methods. The major in medical technology culminates in a 12-month internship in a hospital laboratory-based training program. This results in eligibility for certification and licensure as a medical technologist.

Through courses taken during the freshman and sophomore years, students build a scientific foundation for understanding how biological systems function. In the junior and senior years, students may concentrate in one of several areas: pre-medicine, biotechnology, secondary education, or an individualized program. Research opportunities with departmental faculty as well as internships and cooperative programs with public and private organizations afford students the opportunity to apply their skills outside the classroom. Because of complex biological issues that face modern society, we also encourage non-majors to take selected courses in biological sciences.
Students majoring in biological sciences and medical technology are required to obtain a minimum grade of "C" in BIO 201 and BIO 202 before they are allowed to take further courses in the major.

Students may transfer the above courses from other accredited institutions to satisfy this requirement provided that the courses have been approved and that the students have earned a grade of "C" or higher in the courses transferred.

**Major in Biological Sciences**

**Biology Requirements**

A total of 37 credits in Biological Sciences, as outlined below

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201</td>
<td>Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 202</td>
<td>Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 301</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 302</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO 303</td>
<td>Ecology (required for teacher certification students)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 321</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 322</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 323</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 300-level electives (one or two courses by advisement, see list below)</td>
<td>4–8</td>
<td></td>
</tr>
</tbody>
</table>

A total of 12–16 credits in 400-level electives (by advisement)

**Cross-disciplinary Requirements:**

A total of 16 credits in Chemistry as outlined below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 205</td>
<td>College Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHM 206</td>
<td>College Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHM 305</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 306</td>
<td>Organic Chemistry II</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>CHM 303</td>
<td>4</td>
</tr>
</tbody>
</table>

A total of 8 credits in Physics as outlined below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHS 115-116</td>
<td>General Physics I and II with lab</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>PHS 201-202</td>
<td>8</td>
</tr>
</tbody>
</table>

One of the following Mathematics courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 201</td>
<td>Calculus I</td>
<td>OR</td>
</tr>
<tr>
<td>MTH 221</td>
<td>Calculus for Business, Social and Life Sciences</td>
<td>OR</td>
</tr>
<tr>
<td>MTH 243</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: In normal progress toward the degree, BIO 201, 202, CHM 205, 206 and the recommended mathematics courses are taken in the freshman year. BIO 301, 302, CHM 305, and 306 are taken in the sophomore year. The recommended physics courses are taken in the junior year and 400-level biology courses in the junior and senior years. Up to six credits of either BIO 424 Research Experience or BIO 499 Independent Study in Biology may be included in the 400-level electives for the major.

Transfer students must complete a minimum of 18 credits of upper-division courses in the Department of Biological Sciences at SUNY Brockport regardless of the numbers of credits transferred.
Advisement: To assure proper advisement in particular tracks, students should declare a major as early as possible, preferably in the freshman year. Majors are declared with the department secretary, Room 103, Lennon Hall.

Concentration Areas

Pre-medicine, Pre-dentistry, Pre-veterinary, Health Careers
Each year, students from SUNY Brockport apply for admission to professional study in medicine, dentistry, osteopathy, optometry, podiatry, physical therapy and physicians assistant programs. Although at Brockport most “pre-med” professional students have majored in the biological sciences, there is no special major for pre-professional health care, and the requirements for admission can be met through a variety of majors available at the College. The program in biological sciences is well-established and our graduates successfully compete for positions in professional programs. We do arrange programs with local health care facilities, such as the Oak Orchard Community Health Center, to provide “pre-med” students with the experiential component necessary for successful application to medical school. Upon arrival at Brockport, students should contact the department for further information on these programs. A Pre-professional Advisory Committee assists students interested in entering the medically related professions through formal meetings, counseling and a library of materials; provides application materials for the MCAT, DAT and OAT exams (the admissions tests for medical, podiatric, dental and optometry schools); and prepares a committee evaluation prior to application based on a formal interview with the applicant as well as test scores and GPA. This committee consists of faculty members from biological sciences, chemistry and physics. Contact the department, Room 103, Lennon Hall, for current contact information for this committee.

Biotechnology
The department is well equipped to provide skills in cell and tissue culture, microbiology, microscopy, molecular biology and genetics. A substantial percentage of graduates who have obtained these skills have successfully entered master's and PhD programs or found jobs in academic, government or industrial laboratories.

Certification in Secondary Education (7–12): Biology and General Science
Students who intend to become secondary school biology teachers qualify for New York State Provisional Certification by completing the requirement of bachelor of science and the requisite courses toward certification in secondary education as arranged with the Department of Education and Human Development. Because the certification requirements are extensive and changeable, the student should meet with an advisor in each of the Departments of Biological Sciences and Education and Human Development.

Major in Medical Technology
The major in medical technology enables a student to obtain a Bachelor of Science in Medical Technology from SUNY Brockport at the end of a four-year program, including three academic years here and a fourth calendar year at a school of medical technology approved by the College. During the first three years each student fulfills the General Education requirements and the major requirements. The fourth year at a school of medical technology includes both theoretical and practical work in a medical lab. The BS is awarded upon the satisfactory completion of the requirements of both institutions. Upon completion of the internship, the student is eligible to take the National Registry Examination, which must be passed for the student to be certified as a Registered Medical Technologist. The program is currently offered in affiliation with Rochester General Hospital. To enter this program, students declare a major in medical technology in the freshman year, to assure proper advisement. Majors are declared with the department secretary, Room 103, Lennon Hall. A formal application to the School of Medical Technology is made by the middle of the fall semester of the junior year. Based on the academic record for the freshman, sophomore years and mid-semester grades of the fall semester of the junior year
and an interview, the decision is made as to which applicants will be formally admitted into the clinical year. This decision is competitive and made by the School of Medical Technology. Any students not accepted have the option to complete a major in biological sciences.

**Biology Requirements**

- BIO 201 Biology I 4
- BIO 202 Biology II 4
- BIO 301 Cell Biology 4
- BIO 302 Genetics 4
- BIO 321 Anatomy and Physiology I 4
- BIO 322 Anatomy and Physiology II 4
- BIO 323 Microbiology 4

**Cross-disciplinary requirements**

- CHM 205 General Chemistry I 4
- CHM 206 General Chemistry II 4
- CHM 305 Organic Chemistry I 4
- One of the following:
  - CHM 306 Organic Chemistry II
  - OR
  - CHM 303 Analytical Chemistry I 4
- PHS 115, 116 General Physics I and II with Lab 8
- One of the following Mathematics courses:
  - MTH 201 Calculus I
  - OR
  - MTH 221 Calculus for Business, Social and Life Sciences
  - OR
  - MTH 243 Elementary Statistics 3

**Recommended Course**

- BUS 365 Principles of Management 3

A minimum of 90 credits (including general education requirements) must be completed at Brockport during the first three years of the program. The following courses (34 credits) are usually required in the clinical year at an approved school of medical technology: microbiology (immunology), clinical chemistry, hematology, blood bank, urinalysis/clinical microscopy, principles of disease, and toxicology.

**Minor in Biological Sciences**

A minimum of 18 credits, of which at least 10 must be at the 300/400 level, is required for the minor. Students declaring a minor in biological sciences must earn at least nine credits of biological sciences courses at SUNY Brockport. Since no specific courses are designated, a variety of tracks is possible and it is important that students seek advisement through the Undergraduate Coordinator. (Inquire in Room 103, Lennon Hall.) Many students working toward teacher certification and/or majoring in other disciplines elect a minor to strengthen their degrees.
Biological Sciences Courses

BIO 111 Principles of Biology (A,L). For non-majors. Credit not applicable to the major in biological sciences. Through lectures and laboratory activities, examines the structure and function of living systems, from cells to the biosphere as a whole. 4 Cr. Every Semester.

BIO 201 Biology I (A,L). For majors in biological sciences: (BIO 201 and 202 are not sequential; either may be taken first). Provides an integrated exploration of the fundamentals of biology as a science, the nature and origin of life, biological chemistry, cell biology, genetics and evolution. Draws upon plants, animals and microbes to illustrate structure and function relationships. 4 Cr. Every Semester.

BIO 202 Biology II (A,L). For majors in biological sciences: (BIO 201 and 202 are not sequential; either may be taken first). Focuses on organismal biology by taking an evolutionary approach to examine how animals and plants adapt to the environment, to study structure and functions by examining both animal and plant physiology and to integrate this knowledge with laboratories that run parallel with the lectures. 4 Cr. Every Semester.

BIO 221 Survey of Anatomy and Physiology (A,L). Primarily for physical education and dance majors. Credit not applicable to the major in biological sciences. Surveys human anatomy and physiology, encompassing structure and function of skeletal, muscular, nervous, cardiovascular and respiratory systems. Presents development and integration of these units as a basis for understanding the anatomical and physiological aspects of humans at rest and during activity. Includes a lab. 4 Cr. Every Semester.

BIO 281 Elements of Human Biology (A,N). Credit not applicable to the major in biological sciences. Provides an introduction for non-majors to the human organism-structure, physiology, metabolism, behavior, genetics, evolution and ecological relationships. Addresses important issues in health and human disease as well as current societal and ethical issues in readings, lectures and classroom discussions. 3 Cr.

BIO 301 Cell Biology (A). Prerequisites: BIO 201, BIO 202 and CHM 205. Covers cellular functions and structures and the interrelationship between them. Laboratory illustrates and reinforces principles covered in lecture. Covers techniques, including cell culture, light/fluorescence microscopy, subcellular fractionation, transfection, and protein isolation and analysis. 4 Cr. Fall.

BIO 302 Genetics (A). Prerequisites: BIO 201, BIO 202, CHM 205 and CHM 206. Recommended: One semester of organic chemistry. Covers the gene as the basis of variation and principles of heredity. Includes Mendelian genetics and molecular genetics, including replication, transcription and translation. Covers topics in genetic regulation, conjugation, mutation and repair, recombinant DNA technology as well as population genetics. Laboratory illustrates and reinforces principles covered in lecture. Covers basic techniques in gene and chromosome mapping, DNA isolation and analysis, DNA fingerprinting, bioinformatics, and recombinant DNA technology, including plasmid isolation, transformation, and PCR. 4 Cr. Spring.

BIO 303 Ecology (A). Cross-listed as ENV 303. Prerequisites: BIO 111 or BIO 201 or BIO 202. Ecology addresses interrelationships among organisms and the physical environment. Considers energy flow, nutrient cycling, population and community dynamics, principles of animal behavior, and natural history in lecture, laboratory and field study. 4 Cr.

BIO 305 Comparative Physiology (A). Prerequisites: either BIO 201 or BIO 202; CHM 205 and CHM 206. Takes a comparative and experimental approach to understanding how living organisms function. Examines fundamental but selective aspects of physiology, including homeostatic energy balance, metabolism, water and salt regulation, respiration, locomotion, adaptation to altitude/diving, and nervous and endocrine integration. 4 Cr.

BIO 317 Biology of Aging (A). Credit not applicable to the major in biological sciences. Introduces the study of aging in the human and a number of other animals at the molecular, cellular, tissue and organ level to understand what is meant by aging and how it is measured. Includes effects of genetic composition, sex differences and other factors. 3 Cr.

BIO 321 Anatomy and Physiology I (A). Prerequisites: BIO 111, BIO 202 or BIO 221. Studies the structures and functions of cells, tissues and organs with examples drawn from the human body. Introduces students to the anatomy and physiology of the skeletal, muscular, nervous, endocrine and integumentary systems of the body through lectures and laboratories. Recommended for nursing, health science and pre-medical students (BIO 321 or 322 may be taken out of sequence). 4 Cr. Fall.
BIO 322 Anatomy and Physiology II (A). Prerequisites: BIO 111, BIO 202 or BIO 221. Introduces students to the anatomy and physiology of circulatory, excretory, respiratory, digestive and reproductive systems of the human body through lectures and laboratories. Recommended for nursing, health science and pre-medical students (BIO 321 or 322 may be taken out of sequence). 4 Cr. Spring.

BIO 323 Microbiology (A). Prerequisites: one of BIO 111, BIO 201 or BIO 202 and either CHM 205 or CHM 260. Provides lectures concerned with the structure, function, diversity, and control of microorganisms, including metabolism, growth and regulation, microbial genetics, disease, immunology, and microbial ecology. Provides lab experiences in techniques of pure culture, cultivation, enumeration, isolation and characterization of micro-organisms. 4 Cr. Spring.

BIO 333 Contemporary Issues in Life Science (A,I). Credit not applicable to the major in biological sciences. What is life? When does human life begin? How do genes control life processes? Is it natural/ethical to alter the genetic makeup of species, including humans? What drives pharmaceutical companies and drug development? Explores controversial issues raised by modern biotechnology. Reviews background information for identifying, understanding, and analyzing critical issues facing the life sciences. 3 Cr.

BIO 411 Evolution (A). Prerequisite: BIO 302. Commences with a review of philosophical and factual basis of evolutionary biology. Examines the physicochemical background for the evolution of life, mechanisms of evolution, population genetics, phylogeny, speciation, and consequences of the evolution of populations of living organisms. 3 Cr. Spring.

BIO 414 Immunology (A). Prerequisite: BIO 301. Recommended: BIO 302. Emphasizes aspects of immunology, including the structure and function of immunoglobulins, the role of cell-mediated immunity, the protective role of the immune system, and disease and injury as related to malfunctions of the immune system. 3 Cr.

BIO 415 Molecular Biology (A). Prerequisites: BIO 301, BIO 302 and CHM 305. Covers the biosynthesis and function of macromolecules, especially nucleic acids. Includes topics in regulation, molecular virology, transposition and transformation, as well as recombinant DNA methods. Biology majors only or with instructor’s permission. 3 Cr. Fall.

BIO 416 Laboratory Techniques in Exercise Physiology (A). Cross-listed as PES 416. Prerequisites: BIO 111 or equivalent, PES 310 and MTH 121 or instructor’s permission. Complements the theoretical preparation of students in exercise physiology. Provides experiences in the measurement of acute and chronic adaptations to exercise, the use of technology in the measurement and assessment of physiological functioning during such conditions, and the maintenance and calibration of such equipment. Actively immerses students in the subject to better conceptualize, and internalize, what it means to administer tests, and analyze and interpret data in a meaningful and systematic manner. 3 Cr.

BIO 417 Recombinant DNA Laboratory (A). Prerequisites: BIO 302 and CHM 305. Covers laboratory methods involved in the isolation and cloning of genetic material. Uses procedures such as bacterial and viral growth and selection techniques, gene isolation and detection, restriction analysis, use of DNA ligase and PCR methods, as well as site-specific mutagenesis. DNA “fingerprinting” methods. Utilizes non-radioactive detection methods in the above techniques. Biology majors only or with Instructor's permission. 3 Cr. Fall.

BIO 424 Experimental Research (A). Prerequisites: Junior status and instructor's permission. Under the supervision of a faculty member in biology, allows the student to undertake a lab research project in some area of biological science. Establishes the topic and methodology by mutual consent of the student and faculty member. Requires all students enrolled to meet together with the involved faculty once a week to discuss the background, methods and results of their projects. Encourages students to present their results at Scholars Day. May be repeated; a total of six credits from either BIO 424 or BIO 499 may be applied toward the major in Biological Sciences. 1-4 Cr. Every semester.

BIO 426 Recombinant DNA (A). Prerequisite: BIO 302. Considers theory and techniques in the recombinant DNA field. Includes topics such as cloning vectors, restriction analysis, PCR methods, and expression of cloned genes in both prokaryotes and eukaryotes. Also considers examples and implications of recombinant DNA methodology in plants and agriculture as well as in medicine, human genetics and disease. 3 Cr. Spring.
BIO 428 Microtechnique (A). Prerequisite: BIO 202. Requires students to demonstrate competency in the preparation of tissue by paraffin sectioning and histochemistry. Discusses the theory underlying these techniques in lecture, and considers their application to a hospital pathology laboratory. 3 Cr.

BIO 429 Electron Microscopy (A). Prerequisite: BIO 301. Provides the theory of electron optics and skills in electron microscopy. Also includes methods of specimen preparation and skills of ultramicrotomy. Places a strong emphasis on lab. 4 Cr.

BIO 445 Histology (A). Prerequisite: BIO 202. Studies the microanatomy of animal tissue and organs with emphasis on functional correlations. Includes lab examinations of prepared slides and fresh materials, as well as normal and pathological tissues. 4 Cr. Fall.

BIO 466 General Endocrinology (A). Prerequisite: BIO 202 or equivalent. Covers the relationship between the molecular structure of a hormone and its ability to regulate growth, metabolic and reproductive processes. Mechanisms of action at cell and molecular levels; various endocrine diseases. 3 Cr.

BIO 467 Biochemistry I (A). Cross-listed as CHM 467. Prerequisite: CHM 306. A college biology course is strongly recommended. Covers the chemistry of proteins, lipids, carbohydrates, nucleic acids and other biomolecules with an emphasis on buffers, structures, experimental methods, main energy production pathways and biosynthesis. Applies concepts and information to experimental data and deduction of structures, functional roles and mechanisms. Three hours lecture per week. 3 Cr. Fall.

BIO 468 Biochemistry II (A). Cross-listed as CHM 468. Prerequisites: BIO 467 or CHM 467. Provides a continuation of BIO 467. Covers additional metabolic pathways, human nutrition, chromosomes and genes, protein biosynthesis, cell walls, immunoglobulins, muscle contraction, cell motility, membrane transport and excitable membranes and sensory systems. Investigates experimental evidence for the structures and functions of biomolecules. 3 Cr. Spring.

BIO 470 Biochemistry Laboratory (A). Course fee. Cross-listed as CHM 470. Prerequisites: BIO 467 or CHM 467 and CHM 303. Covers biochemical analyses, including preparation, separations and characterization of products from a variety of biological sources; and experiments with enzymes and experiments designed to measure changes inherent in the dynamics of living systems. 1 Cr.

BIO 471 Biological Sciences Overseas Program (A). Prerequisite: Departmental approval. Requires students to attend classes in the biological sciences and/or related areas at the participating overseas university. 1-15 Cr.

BIO 495 Topics in Biology (A). To be defined by the instructor-sponsor in accordance with the specific topic to be covered that semester. Additional information may be obtained from the department office. 1-4 Cr.

BIO 498 Seminar (A). Prerequisite: Senior status and a major in biological sciences. Provides an opportunity to research a topic and organize and present a seminar on the topic. Provides experience in utilizing presentation and illustration software in oral presentations. 1Cr. Every Semester. 1 Cr.

BIO 499 Independent Study in Biology (A). Prerequisite: Instructor’s permission. To be defined in consultation with the instructor-sponsor and in accordance with the procedures of the Office of Academic Advisement prior to registration. 1-4 Cr.
BOARD OF STUDY FOR THE
TEACHING OF SCIENCE AND MATHEMATICS
(585) 395-5585

Chair and Associate Professor Emeritus, Chemistry: Kenneth D. Schlecht, PhD, University of Iowa; Members: Distinguished Service Professor, Education and Human Development: Betsy C. Balzano, PhD, Florida State University; Assistant Professor Emeritus, Education and Human Development: Walter F. Brautigan, PhD, Cornell University; Instructor, Chemistry: Dawn M. Lee, MS, Rochester Institute of Technology.

The Board of Study was created in natural and mathematical sciences to work for the improvement of science and mathematics teaching. Its intent is to supplement departmental efforts and to carry out functions and programs not within the interest of a single department or appropriately administered through one department. Graduate-level subject-matter courses emphasizing the fundamental principles of the sciences and mathematics are scheduled by the Board of Study. Advisement services and courses specifically designed for teachers at the elementary and secondary school levels are available on a regular basis. Acceptability of natural science courses toward a graduate degree is determined in consultation with the student’s major advisor.

Natural Sciences Courses

**NAS 273 Investigation in the Physical Sciences** (A.L). Study of the fundamental aspects of physics and chemistry. Topics include Newton’s Laws of Motion, Chemical Reactions and Kinetics, Electricity, Magnetism, and Optics. Particular attention is paid to everyday phenomena which exhibit scientific principles. Laboratories use materials that are readily available. Three hours of lecture and two hours of laboratory per week. 4 Cr.

**NAS 371 Investigations in the Biological Sciences** (A). Provides an activity-oriented investigation of environmental concepts and problems and a basic ecological background for students with no previous background. 3 Cr.

**NAS 401 Computational Methods for Teachers I** (A). Prerequisite: Instructor’s permission. Enables teachers and teacher candidates in mathematical, physical, life, and earth sciences to learn computational tools, advanced graphing calculators, laptop computers, CD- and Web-based tools. Involves computational science as a process in solving real-world problems in sciences. Introduces technology tools (such as graphing calculators), math modeling tools (such as Excel, STELLA, and Geometer’s Sketchpad), agent-based modeling tools (such as AGENTSHEETS), science modeling tools (such as Interactive Physics). Includes a section on NY State K-12 standards in math, science and technology. 3 Cr.

**NAS 486 Laboratory Science Safety** (A). Prerequisites: Senior status, and an academic major in one of the natural sciences. Required for students in Secondary Science Certification programs. Describes lab teaching practices for students pursuing certification to teach science courses. Emphasizes lab hazard potential, especially when working with chemicals in biology, earth science/geology, physics and chemistry. Includes three hours of lecture/lab per week. 3 Cr.