

2007-2008  
Catalog



Georgia Gwinnett  
COLLEGE



THE CAMPUS OF TOMORROW

Addendum  
September 10, 2007

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## **Vision**

Georgia Gwinnett College will be a premier 21<sup>st</sup> Century Liberal Arts college where learning will take place continuously in and beyond the confines of the traditional classroom. Its cornerstones will be innovative use of educational technology and a commitment to an integrated educational experience that develops the whole person. GGC will be a wellspring of educational innovation. It will be a dynamic learning community where faculty engagement in teaching and mentoring students will be the hallmark. It will be a driving force for change in student success. As such, it will be a model for innovative approaches to education, faculty engagement with students, and highly efficient student, facility, and administrative services.

## **Mission**

Georgia Gwinnett College provides access to targeted baccalaureate level degrees that meet the economic development needs of the growing and diverse population of the northeast Atlanta metropolitan region. It emphasizes the innovative use of technology and active-learning environments to provide students enhanced learning experiences, practical opportunities to apply knowledge, increased scheduling flexibility, and a variety of course delivery options. Georgia Gwinnett's outstanding faculty and staff actively engage students in various learning environments, serve as mentors and advisors, and assist students through programs designed to enhance their academic, social, and personal development. GGC produces contributing citizens and future leaders for Georgia and the nation. Its graduates are inspired to contribute to the local, state, national, and international communities and are prepared to anticipate and respond effectively to an uncertain and changing world.

## **Institutional Goals**

As a charter 21<sup>st</sup> Century Institution GGC will:

- Produce graduates who can anticipate and respond effectively to the changing world
- Inspire graduates to be contributing citizens and community leaders
- Achieve significant levels of student success in retention, progression and graduation
- Innovatively design and deliver educational programs and support services
- Engage with Gwinnett and surrounding communities to support student development
- Create a culture devoted to the holistic development of students
- Acquire the resource base needed to accomplish its mission and vision
- Serve as a resource for innovation for the broader education community

## History of Georgia Gwinnett College

GGC was created by the Board of Regents of the University System of Georgia (USG) as “a true 21st century higher education institution.” The college will be a leader in the use of instructional technology and other innovative educational methods, and in the assessment of student learning to enhance education. Designated as an institution with a principal responsibility for developing innovative approaches to higher education, the college will offer bachelor degree programs in a variety of disciplines. In addition, the college will serve as a unit of the USG that is focused by design on highly efficient approaches to student and administrative services.

GGC currently offers junior-level courses and will provide full degree programs in fall 2007. Programs will initially focus on four areas that are important to meeting the needs of the region and the state including biology, business, information technology and psychology. In following years, degrees in education and nursing are projected to be part of the curriculum.

### **Significant Firsts**

Georgia Gwinnett College is the first public four-year liberal arts college to be founded in the United States in the 21st century according to the American Council on Education. It is also the first four-year college to be founded in Georgia in more than 100 years. It is the product of visionary leadership by the community, Georgia’s Board of Regents and the State Legislature. GGC was founded in response to a regional need.

For more than 15 years, community leaders have pressed for a four-year college in Gwinnett. As the county grew rapidly, it was evident that the expanding business community needed a source of qualified candidates for its workforce. Local high schools now produce an increasing number of graduates who need more options for higher education. It was clear that the county needed a four-year college of its own, one that embraces new technologies and teaching methods appropriate to the 21st century.

A resolution was passed by the Board of Regents in October 2004, and the college was established by the Georgia General Assembly in March 2005. As the University System of Georgia’s model campus, it will create opportunities to provide innovative approaches to highly-efficient student, facility and administrative services.

The college held its first classes on Friday, August 18, 2006 at its Lawrenceville campus. One hundred-eighteen students attended classes as part of the first fall enrollment. This enrollment was represented by 65% females and 35% males and included a culturally diverse student population.

## 2007 – 2008 Academic Calendar

### FALL 2007 CALENDAR

<u>Month</u>	<u>Date</u>	<u>Day(s)</u>	<u>Description</u>
July	2	Monday	Academic Advisement/Registration Begins
August	10	Friday	Deadline to Apply for Admission for Fall 2007
August	10	Friday	Deadline for Fall 2007 Tuition Payments
August	15-17	Wednesday - Friday	New Student Orientation
August	20	Monday	Classes Begin
August	20-22	Monday - Wednesday	Drop/Add
September	3	Monday	Labor Day Holiday
September	20	Wednesday	Deadline for Petitions for In-State Residency
October	8	Monday	Midsemester
October	15	Monday	Applications for Graduation due
November	21-25	Wednesday – Sunday	Thanksgiving Holidays
December	7	Friday	Last Day of Classes before Final Exams
December	8	Saturday	Reading Day for Final Exams
December	10-15	Monday - Saturday	Final Examinations
December	18	Tuesday	Grades Due

### SPRING 2008 CALENDAR

<u>Month</u>	<u>Date</u>	<u>Day(s)</u>	<u>Description</u>
November	1, 2007	Thursday	Academic Advisement/Registration Begins
December	14, 2007	Friday	Deadline to Apply for Admission for Spring 2008
January	3-4	Thursday - Friday	New Student Orientation
January	4	Friday	Deadline for Spring 2008 Tuition Payments
January	7	Monday	Classes Begin
January	7-9	Monday – Wednesday	Drop/Add
January	21	Monday	Martin Luther King, Jr. Holiday NO CLASSES
February	7	Thursday	Deadline for Petitions for In-State Residency
February	29	Friday	Midsemester
March	10-16	Monday – Sunday	Spring Break – NO CLASSES
April	28	Monday	Last Day of Classes before Final Exams
April	29	Tuesday	Reading Day for Final Exams
April – May	30 – 6	Wednesday – Tuesday	Final Examinations
May	9	Friday	Grades Due
June	28	Saturday	Commencement

### SUMMER 2008 CALENDAR

<u>Month</u>	<u>Date</u>	<u>Day(s)</u>	<u>Description</u>
April	1	Tuesday	Academic Advisement/Registration Begins
May	8-9	Thursday - Friday	New Student Orientation
May	9	Friday	Deadline for Summer 2008 Tuition Payments
May	12	Monday	Classes Begin
May	12-14	Monday – Wednesday	Drop/Add
May	26	Monday	Memorial Day Holiday – NO CLASSES
June	12	Thursday	Deadline for Petitions for In-State Residency
June	18	Wednesday	Midsemester
July	4	Friday	Independence Day Holiday – NO CLASSES
July	25	Friday	Last Day of Classes before Final Exams
July	26	Saturday	Reading Day for Final Exams
July	28-30	Monday - Wednesday	Final Examinations
August	1	Friday	Grades Due

## **FACILITIES**

Georgia Gwinnett College is located at the current Gwinnett University Center on 177 acres located off Collins Hill Road at Ga. Highway 316/University Parkway in Lawrenceville, Georgia. For 2006-2007, Georgia Gwinnett College shares facilities at the Gwinnett University Center with off-campus programs delivered by Georgia Perimeter College and the University of Georgia.

Three buildings service the functions of Georgia Gwinnett College:

**Building A** – The first academic building opened in January, 2002. With approximately 120,000 square feet, this building provides over 40 classrooms, science labs, the student center, bookstore, enrollment/registration services, financial aid, advisement/testing, faculty offices, and an Information Services desk surrounded by 12 computer/internet stations available to students.

**Building B** – The “signature” building opened in August, 2002. With approximately 100,000 square feet, this building provides 18 classrooms, a 21<sup>st</sup> century library, innovative learning labs, faculty offices, and administrative office space for the executive administration at Georgia Gwinnett College.

**Building C** – This additional classroom building opened in January, 2006. With approximately 30,000 square feet, this building provides 16 classrooms and faculty offices.

**Building D** – Currently under renovation, this building will house the admissions office, the registrar’s office, and the financial aid office along with student development.

### **Georgia Gwinnett College Library**

The mission of the Georgia Gwinnett College Library is to serve the information and research needs of the students, faculty, and staff of Georgia Gwinnett College, a four year unit of the University System of Georgia. The library also provides resources and services for the partners of the former Gwinnett University Center; Georgia Perimeter College and the University of Georgia, and serves as a resource center for the Gwinnett county community.

The Library is centrally located on the campus on the first two floors of the B Building. The first floor contains the print Circulating and Reference Collections, microfilm, periodicals and short term use computers. A classroom dedicated to library instruction is also located on the first floor. Service points on this floor include the Circulation Desk and a Reference Desk, staffed by professional degree librarians. The Access Services and Technical Services Departments are located on the first floor. The second floor contains the Information Commons computer stations, a Reference/IC Help Desk and the Reference/IC Services Office. Study rooms are located within the Reference area and along the perimeter hallway across from the Reference area. The Library Administration offices are also located on the second floor.

The Library’s collections include over 19,000 printed books and over 27,000 electronic books. The library subscribes to over 250 current periodical/scholarly journal titles and newspapers. Georgia Gwinnett College Library participates in the University System of Georgia GALILEO/GIL consortium. GALILEO allows the Library to provide access to approximately 200 core databases with over 2000 journal titles in full text. The Library also provides access to several databases outside of GALILEO in order to provide an even broader collection for research. Through GIL, the Library participates in a system that provides access to the collections of all University System of Georgia libraries. Other areas of interest include the Reserves Collection that holds items used in courses and the Archives Collection, a collection of documents and memorabilia relating to the founding of Georgia Gwinnett College.

Services provided include library instruction and Interlibrary loan. Instruction ranges from general orientation of the Library and its resources to discipline specific sessions. Interlibrary loan, allows the Library to obtain books and documents that are otherwise not available in the Library Collections. The Library is open approximately seventy three hours a week. For additional information on the Library, its collections and services, please contact the Georgia Gwinnett College Library, 1000 University Center Lane, Lawrenceville, GA 30043, 678-407-5317.

## **HOURS OF OPERATION**

Georgia Gwinnett College is open for classes between the following times:

Monday through Friday – 7:00 a.m. to 11:00 p.m.

Saturday – 7:00 a.m. to 7:00 p.m.

Sunday – 1:00 p.m. to 6:00 p.m.

Administrative Offices at Georgia Gwinnett College are open between the hours of 8:00 a.m. to 5:00 p.m. Monday through Friday.

## TUITION & FEES

### Georgia Gwinnett College Tuition and Fees

Georgia Gwinnett College, along with all the University System of Georgia (USG) colleges and universities, participates in a guaranteed tuition policy. This policy means students may qualify for a guaranteed tuition rate for up to four years, providing more financial stability and encouraging students to graduate on time.

See the schedule below to determine your current tuition rate for Fall 2007. All tuition rates are in addition to student fees.

**All tuition, fees, or other charges are subject to change at the end of any academic term.**

#### In-State Tuition

New and Existing Students	Tuition per credit hour
Incoming freshmen	\$78
Continuing and transfer students with <b>less than 60 attempted hours</b> (began at a USG school between Fall 2006 and Summer 2007)	\$68
Continuing and transfer students with <b>less than 60 attempted hours</b> (began at a USG school before Fall 2006)	\$74
Continuing and transfer students with <b>more than 60 attempted hours</b> (first time at a USG school)	\$120
Continuing and transfer students with <b>more than 60 attempted hours</b> (began at a USG school between Fall 2006 and Summer 2007)	\$107
Continuing and transfer students with <b>more than 60 attempted hours</b> (began at a USG school before Fall 2006)	\$113

#### Out-of-State Tuition

New and Existing Students	Tuition per credit hour
Incoming freshmen	\$312
Continuing and transfer students with <b>less than 60 attempted hours</b> (began at a USG school between Fall 2006 and Summer 2007)	\$268
Continuing and transfer students with <b>less than 60 attempted hours</b> (began at a USG school before Fall 2006)	\$296
Continuing and transfer students with <b>more than 60 attempted hours</b> (first time at a USG school)	\$478
Continuing and transfer students with <b>more than 60 attempted hours</b> (began at a USG school between Fall 2006 and Summer 2007)	\$427
Continuing and transfer students with <b>more than 60 attempted hours</b> (began at a USG school before Fall 2006)	\$449

#### 2007-2008 Fees (All fees listed are per semester.)

Activity Fee = \$35

Parking Fee = \$100

Recreation = \$40

Student Center = \$100

Technology = \$75

Science Lab = \$30 per lab (only for students taking a lab)

Parking Fine = \$30

ID Replacement = \$30

Non Sufficient Funds Fine = \$25 (or 5%, whichever greater)

Application fee = \$15

#### Dining Dollars

Beginning Fall 2007, GGC in partnership with Aramark Corporation will expand campus dining services to include a 'grab-and-go' station, Quizno's Sub, pizza and pasta station and a specialty coffee shop, all with extended dining hours. Students may use funds on their GGC Student Account ID at any of the campus dining services, dollar for dollar. Monies not used during fall semester will be carried over and added to the spring semester Dining Dollars balance. Dining Dollars are billed to student accounts for \$200 at the beginning of each semester.

## **REFUND POLICY**

The refund amount for students withdrawing from the institution shall be based on a pro rata percentage determined by dividing the number of calendar days in the semester that the student completed by the total calendar days in the semester. The total calendar days in a semester includes weekends, but excludes scheduled breaks of five or more days and days that a student was on an approved leave of absence. The unearned portion shall be refunded up to the point in time that the amount earned equals 60%.

Students who withdraw from the institution when the calculated percentage of completion is greater than 60% are not entitled to a refund of any portion of institutional charges.

A refund of all nonresident fees, matriculation fees, and other mandatory fees shall be made in the event of the death of a student at any time during the academic session.

Tuition and fees awarded by scholarship or grant from an agency or authority of the State of Georgia on behalf of a student receiving a refund under this policy shall be reimbursed to such agency or authority.

**REFUND POLICY FOR VETERANS:** The school will refund the unused portion of prepaid tuition and fees on a pro rata basis. Any amount in excess of \$10.00 for an enrollment of registration fee will also be prorated. (Title 38 CFR 214255).

### **Military Service Refunds**

Full refunds of tuition and mandatory fees and pro rata refunds of elective fees are hereby authorized for students who are:

- a) Military reservists (including members of the National Guard) and who receive emergency orders to active duty after having enrolled in a University System institution and paid tuition and fees;
- b) Active duty military personnel and who receive an emergency reassignment after having enrolled in a University System institution and paid tuition and fees;
- c) Otherwise unusually and detrimentally affected by the emergency activation of members of the reserve components or the emergency deployment of active duty personnel of the Armed Forces of the United States and who demonstrate a need for exceptional equitable relief.



## **ENROLLMENT POLICIES**

The preferred application deadline for the Fall 2007 semester is July 1, 2007. Applications received after this date will be considered on a space-available basis.

The preferred application deadline for the Spring 2008 semester is November 1, 2007. Applications received after this date will be considered on a space-available basis.

No applications (and accompanying documentation, including official transcripts) will be accepted after the last day of drop/add each semester.

### **Admission Policies**

Georgia Gwinnett College maintains a strong commitment to helping students succeed. Our philosophy of student success begins when students first apply to the College and continues through graduation. GGC demonstrates commitment to its mission by providing broad access to a wide-range of educational programs and life experiences that enable a diverse student body to become contributing citizens of local, state, national, and international communities. It is our expectation that graduates of GGC will be prepared to anticipate and respond effectively to an uncertain and changing world.

### **APPLICATION PROCEDURES**

Any student applying for admission to Georgia Gwinnett College must complete the following procedures:

- 1) Complete an electronic Application for Admission, available at [www.ggc.usg.edu/apply.php](http://www.ggc.usg.edu/apply.php) or [www.gacollege411.org](http://www.gacollege411.org). Students who are unable to complete the electronic application should contact the GGC Admissions Office at 678-407-5313.
- 2) Submit the required \$15 application fee with the application.
- 3) Freshmen and applicants with fewer than 30 transfer hours must request that their most recently-attended high school submit an *official* high school transcript to Georgia Gwinnett College.
- 4) Applicants who have attended *any* college (as a transfer student or as a HOPE-ACCEL student) must request *official* college transcripts from *all* colleges previously attended. These official transcripts must be sent directly to Georgia Gwinnett College.
- 5) Students must submit the Georgia Gwinnett College Immunization Form completed and signed by a physician. For more details on the specific immunizations required for admission to Georgia Gwinnett College, consult the GGC Immunization Form available on the GGC Application for Admission.
- 6) The mailing address for submission of all documents (except the electronic admissions application) is:

Georgia Gwinnett College  
Office of Admissions  
1000 University Center Lane  
Lawrenceville, GA 30043

## **ADMISSION REQUIREMENTS**

### Freshmen

Applicants who have never attended other colleges or who have earned fewer than 30 semester hours from previous colleges are classified as freshmen. The following requirements are in effect for freshman applicants:

- 1) Freshmen must have a High School Diploma from a high school accredited by a regional accrediting association (such as the Southern Association of Colleges and Schools), or by the Georgia Accrediting Commission, or from a public school regulated by a school system and state department of education. Certificates of Attendance or Special Education Diplomas are not acceptable.
- 2) Persons over 18 years of age (or whose class has already graduated from high school) whose secondary schooling was interrupted may be admitted by presenting General Educational Development (GED) equivalency. Official GED test score reports must be mailed directly from the Georgia Department of Adult and Technical Education Office of Adult Literacy/GED Testing Service to the Georgia Gwinnett College Admissions Office. Any consideration for applicants with a GED will require review by the Georgia Gwinnett College Admissions Committee. It is strongly suggested that the GED applicant take either the College Board Scholastic Assessment Test (SAT) or the American College Test (ACT). The test score will be incorporated into the applicant's portfolio for the committee's review and evaluation in order to determine admission eligibility. An interview with the GED candidate may be required.
- 3) High school students with a College Preparatory Diploma must have a minimum 2.00 grade point average (GPA) on all academic coursework required in the College Preparatory curriculum.
- 4) High school students with a Tech-Prep Diploma must have a minimum 2.50 grade point average (GPA) on all academic coursework.
- 5) Freshman applicants whose cumulative grade-point averages are below 2.00 will not be automatically admitted into Georgia Gwinnett College. Students at this classification who feel that they have extenuating circumstances to warrant admission to Georgia Gwinnett College should file a Request for Admissions Appeal to the Admissions Committee. The Admissions Committee will review the submitted documentation in order to determine the student's potential for college-level academic work. An interview with the student may be required. The decision of the Admissions Committee is final.
- 6) Regardless of the diploma earned in high school and accepted for admission to Georgia Gwinnett College, each student will be evaluated to determine satisfactory completion of the following 16 units of the University System of Georgia College Preparatory Curriculum (CPC):

<b><u>Course Category</u></b>	<b><u>Instructional Emphases</u></b>
ENGLISH (4 Carnegie Units Required)	Grammar and Usage; Literature (American, English, World), and Advanced Composition Skills
MATHEMATICS (4 Carnegie Units Required)	Algebra I, Algebra II, Geometry
SCIENCE (3 Carnegie Units Required)	One laboratory course from the life sciences and one laboratory course from the physical sciences
SOCIAL SCIENCE (3 Carnegie Units Required)	At least one course focusing on United States studies and one course focusing on world studies
FOREIGN LANGUAGE (2 Carnegie Units Required)	Units must be in the same language; emphasis on speaking, listening, reading, and writing in that language

Students who have not completed the required CPC units must take additional courses as outlined below to make up for the CPC deficiencies. All CPC deficiencies must be made up before the student has earned 20 semester hours of college level credit. College courses taken to satisfy CPC deficiencies cannot be used to fulfill Core Curriculum or degree requirements at Georgia Gwinnett College, but they are calculated in the cumulative GGC grade point average (GPA). Transfer students who satisfy CPC requirements at another institution of the University System of Georgia will be acknowledged as having met those requirements.

<u>Area of CPC Deficiency</u>	<u>Prescribed Remediation</u>
ENGLISH	Pass COMPASS placement tests in Reading and English or complete Learning Support coursework in Reading and English
MATHEMATICS	Pass COMPASS placement tests in Mathematics or complete Learning Support coursework in Mathematics
SCIENCE	Complete a laboratory science course from Area D of the General Education curriculum; course must be successfully completed with a grade of "C" or better; course does not count toward graduation from Georgia Gwinnett College
SOCIAL SCIENCE	Complete a course from Area E of the General Education curriculum; course must be successfully completed with a grade of "C" or better; course does not count toward graduation from Georgia Gwinnett College
FOREIGN LANGUAGE	Complete an approved foreign language course from the General Education curriculum; course must be successfully completed with a grade of "C" or better; course does not count toward graduation from Georgia Gwinnett College

- 7) Course Placement – Freshmen (including those with fewer than 30 semester hours) will take COMPASS Placement Exams prior to course registration in order to determine specific requirements for remediation (or exemption from remediation) in English, reading, and mathematics. Students who meet the 16 CPC unit requirements may submit the following minimum scores on a nationally administered SAT or ACT as a means of demonstrating proper proficiency in English, reading, and mathematics:

SAT Critical Reading = 480

SAT Math = 460

ACT English = 21

ACT Math = 19

Proficiency in mathematics allows a student to register for an introductory mathematics course (MATH 1111, MATH 2000, BUSA 2000). SAT or ACT scores are insufficient for enrollment in higher mathematics courses (MATH 1113, MATH 2200). A student who desires to register for a higher mathematics course must take the COMPASS Placement Exam or have CLEP, AP, or IB credit (see Alternate Credit Options).

- 8) Home-Schooled students or students who graduated from non-accredited high schools may be considered for admission upon submission of a portfolio of the student's academic work and official SAT/ACT scores. Students who have completed each of the 16-unit CPC areas as documented in the portfolio (or as documented by the SAT II Subject Tests) and have achieved the minimum SAT scores listed in Section 7 above may be admitted to Georgia Gwinnett College upon review by the Admissions Committee. An interview with the candidate may be required.
- 9) International students who are present in the United States on a Permanent Resident Alien status must submit a copy of their Permanent Resident card. Georgia Gwinnett College is not approved by the US Department of Homeland Security to enroll international students on any other status other than Permanent Resident Alien for the 2007-2008 academic year.

### Transfer Students

Applicants who have attended other colleges and have earned more than 30 semester hours are classified as transfer students. Students admitted from other colleges are required to meet all general requirements regarding examinations and application deadlines. Students planning to transfer from other colleges must request that the Registrar's Office at each college previously attended forward an official transcript to the Admissions Office at Georgia Gwinnett College. **Official transcripts are required whether or not the applicant receives transfer credit.** Documents must be mailed directly from the other college to the Georgia Gwinnett College Admissions Office.

- 1) Transfer applicants must present a cumulative grade-point average of 2.50 or above (based on a 4.00 scale) on all work attempted and must be in "good standing" at the last institution in order to be admitted to Georgia Gwinnett College in "good standing."
- 2) Transfer applicants whose cumulative grade-point averages are below 2.50 and above 2.00 will be admitted on Academic Probation and will be required to maintain Satisfactory Academic Progress as defined by their academic classification in order to be placed in "Good Standing" at Georgia Gwinnett College.
- 3) Transfer applicants whose cumulative grade-point averages are below 2.00 will not be automatically admitted into Georgia Gwinnett College. Students at this classification who feel that they have extenuating circumstances to warrant admission to Georgia Gwinnett College should file a Request for Admissions Appeal to the Admissions Committee. The Admissions Committee will review the submitted documentation in order to determine the student's potential for college-level academic work. An interview with the student may be required. The decision of the Admissions Committee is final.
- 4) Transfer applicants must present minimum grades of "C" on all courses directly related to their Program of Study (Area F in the General Education Core and courses accepted into the major).
- 5) International students who are present in the United States on a Permanent Resident Alien status must submit a copy of their Permanent Resident card. Georgia Gwinnett College is not approved by the US Department of Homeland Security to enroll international students on any other status other than Permanent Resident Alien for the 2007-2008 academic year.

### Transfer of Credit Policies

Evaluations of transfer credit are mailed to applicants prior to registration as long as the admissions file was complete by the application deadline. Otherwise, evaluations of transfer credit will be mailed to students during the first semester of enrollment.

- 1) Credit earned in **regionally accredited colleges** may be transferred at full value to Georgia Gwinnett College provided the course content is comparable to that of a course offered by Georgia Gwinnett College or, for non-comparable courses, those that satisfy the guidelines of the University System of Georgia.
- 2) Transfer students are required to earn a grade of "C" or better in all Area A requirements (ENGL 1101 and 1102, MATH 1111, or equivalents) in order for those courses to transfer to Georgia Gwinnett College. In addition, a grade of "C" or better is required in all courses used in Area F and in the major.
- 3) Other courses earned at regionally accredited institutions may be permitted to transfer with grades of "D," to the extent that the grades on all credits accepted for transfer average to at least 2.50.
- 4) The transfer grade-point-average (GPA) will not be included in the student's cumulative institution GPA at Georgia Gwinnett College but will be included into the GPA required by certain financial aid sources (i.e., HOPE scholarship).
- 5) The total number of combined hours through military experiences shall not exceed 15 semester hours. In order to determine military credit, the student must submit discharge paperwork (DD-214) or a military course transcript (AARTS, SMART, CCAF, etc.).

- 6) Transfer credit from colleges and universities outside the United States must be evaluated by an organization with experience in evaluating foreign credentials. Georgia Gwinnett College suggests using Joseph Silny & Associates ([www.jsilny.com](http://www.jsilny.com)). The student must submit transcripts to Silny or another similar organization and request that an appropriate evaluation be submitted to the Georgia Gwinnett College Admissions Office.
- 7) Transfer students must complete the Regents Examinations in Reading and Writing prior to graduation. Completion of the Regents Examinations at a previous University System of Georgia institution will transfer to Georgia Gwinnett College.
- 8) Transfer students must complete requirements in United States History and Constitution as well as Georgia History and Constitution prior to graduation. Completion of American History and American Government at a previous University System of Georgia institution will transfer to Georgia Gwinnett College. Completion of American History and American Government at a non-University System of Georgia institution (including out-of-state institutions) will satisfy the US History and Constitution requirement upon transfer, but not the Georgia History and Constitution requirement. A proficiency examination in these legislative requirements is available for the student to complete prior to graduation.

## **ALTERNATIVE CREDIT OPTIONS**

Georgia Gwinnett College accepts college credit by examination through the College-Level Examination Program (CLEP) and the Advanced Placement (AP) Program, and the International Baccalaureate (IB). The following rules govern the awarding of credit by examination.

- 1) The maximum credit that can be earned by CLEP, AP and IB examination is limited to 30 semester hours.
- 2) A student who is currently enrolled in the course or has earned a grade other than a W in the course may not earn CLEP credit for the course.
- 3) CLEP, AP and IB credits carry no academic grade and are not computed into the grade point average (GPA).
- 4) Credits earned through CLEP may be transferred from other institutions in the University System of Georgia upon verification that CLEP scores are equal to or higher than those required by Georgia Gwinnett College. Students are responsible for verifying the score by having the College Board send an official score to GGC.
- 5) Students who failed to achieve the CLEP score necessary to receive credit must wait six months before being allowed to re-test.
- 6) Information about specific test scores may be found on the website, the departmental offices or in the Registrar's Office.

## **WITHDRAWAL FROM COLLEGE**

Students who need to withdraw from college during the middle of the semester are required to complete a Withdrawal from College form. The Withdrawal from College form can be obtained from the Registrar's Office or the Office of Enrollment Management. The form must be completed and returned to the Registrar's Office in order to be effective. The student's faculty must sign the form indicating the student's last date of attendance as well as the grade (W or WF) to be assigned in the course.

For purposes of financial aid return of funds calculations, the effective date of the withdrawal equals the date the student initiated the withdrawal process. The last date of attendance is used as the date to calculate amount of financial aid earned.

Students who stop attending classes without following the above-listed procedures will earn a WF for the course. If a last date of attendance at any college-sponsored activity can be documented by any office, that date will be used in the calculation of return of financial aid funds; otherwise, the mid-point of the semester will be used to calculate return of financial aid funds.

It is *imperative* that students keep in contact with their course instructors in cases of college withdrawal in order to determine if other options may be available to them.

## **RELEASE OF INFORMATION**

Directory information for any student will be distributed by Georgia Gwinnett College only as herein provided. Directory information may include the student's name, address, telephone number, date and place of birth, major field of study, participation in collegiate activities, dates of attendance, degrees conferred, awards and honors earned, the most recent previous educational agency or institution attended by the student, and other similar information. Students have the right to refuse to permit the designation of any or all the categories as directory information. If students choose to exercise the right of refusal, they must do so in writing to the Registrar within 30 days of the beginning of each academic semester. It is understood that appropriate college officials will have access to such information and records as shall be necessary for them to perform their professional responsibilities. All official use of student files shall be in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974 (FERPA) and shall be duly recorded and shall be documented as required by its regulations.

The following information and records shall not be covered by this policy and access shall not be provided to students: information related to pending admissions decisions, financial records or information relating to students or parents/guardians; confidential statements of recommendation placed in the record obtained if a receipt of a statement from students waiving the right to open accessibility placement records is present; all information relative to the application for and receipt of financial assistance; records created or maintained by a physician, psychiatrist, psychologist, or other professional or paraprofessional acting or assisting in a similar capacity in treatment of a student; institutional employment or faculty files; alumni information; and sole-access educational records. Sole-access records are those records of instructional, supervisory and administration and educational personnel that are in the sole possession of the makers and are not accessible or revealed to any other individual except a temporary substitute.

Procedure for Review and Correction. Pursuant to Family Educational Rights and Privacy Act of 1974, students have the right to inspect their educational records and correct such records if necessary. Students desiring to review their records should make this request to the appropriate official in writing. Such written request will be granted within a period of no more than 45 days from the date of request. In the event the record contains inaccurate, misleading or otherwise inappropriate information, every effort will be made to correct or delete such material, and the student will be so informed of such action in writing. Institutions may release information to governmental agencies for review for purposes of financial aid audits, National Student Loan Clearinghouse, etc. In the event of a subpoena, the institution may disclose information if the institution makes a reasonable effort to notify the eligible student of the order or subpoena in advance of compliance, so that the student may seek protective action, unless the disclosure is in compliance with a Federal grand jury subpoena. Complete information on FERPA policy may be found at [www.ed.gov/policy](http://www.ed.gov/policy).

## **ATTENDANCE POLICY**

The classroom experience is a vital component of the college learning experience. Interaction with instructors and with other students is a necessary component of the learning process. Students are expected to attend regularly and promptly all class meetings and academic appointments. Students who are absent from classes bear the responsibility of notifying their instructors and keeping up with class assignments in conjunction with instructor provisions in the course syllabus. An individual instructor bears the decision as to whether a student's absence is excused or unexcused and whether work will be permitted to be made up; the decision of the instructor in this case is final. Students who are absent because of participation in college-approved activities (such as field trips and extracurricular events) will be permitted to make up the work missed during their college-approved absences.

Students whose absences exceed two-thirds of the total class meetings in a semester may be administratively withdrawn from the course by the instructor. This includes excused and unexcused absences. A student administratively withdrawn from a course due to excessive absences may re-enroll for that course in a subsequent semester during which the course is offered.

# **STUDENT SUCCESS PROGRAM**

The Director of Student Success Programs reports directly to the Vice President for Academic and Student Affairs and oversees a number of comprehensive programs aimed at promoting and providing successful ongoing academic and life skills to a diverse student population:

- 1) The First Year of College Seminar required for all incoming first year students to prepare them with academic and life skills crucial to their success in college and beyond.
- 2) Student Success English as a Second Language program for high school graduates who are non-native speakers of English and lack fluency in academic English. Students may be qualified to take additional specified college content courses for credit.
- 3) Student Success courses in English, reading, and math for high school graduates who score below collegiate level English and math.
- 4) Academic Enhancement Center to provide support for classroom instruction, and assess learning styles and reading skills. The Center offers free tutoring in most disciplines offered by the college as well as workshops to meet student academic and technological needs.
- 5) Senior Year Experience which may include Senior Portfolio and activities that provide seniors with opportunities to reflect on and afford closure to their undergraduate educational experience and present them with transitional skills for post college life.
- 6) Student Success programming and services to support all students by building a sense of community and by encouraging faculty and students to be mentors and tutors.

## **ESL for Student Success I & II**

All entering non-native speakers of English without transferable college level English credit and scores below SAT 480 or ACT 21 will be required to take the ESL Placement Test to determine at what level of ESL/English they will be placed. Depending on their placement score, students will be required to take one or both sequences of ESL for Student Success I & II and/or English 1101 ESL. No degree credit may be earned by ESL for Success courses, but institutional load credit is awarded for the term of enrollment.

- **ESL for Student Success I** – Students placed in ESL for Student Success I **MUST** enroll in all three courses.
  - ESL for Success Integrated Skills I (ESL 0080)
  - ESL for Success Applied Grammar I (ESL 0081)
  - ESL for Success Academic Listening/Speaking Skills I (ESL 0082)
- **ESL for Student Success II** – Students must register for Applied Grammar II based on faculty recommendation.
  - ESL for Success Integrated Skills II (ESL 0090)
  - ESL for Success Applied Grammar II (ESL 0091)

## **Student Success English/Reading and Math**

Student Success English and math courses serve students who need preparation in reading, mathematics, and English. Students who do not meet standards for regular admission are required to take the appropriate Student Success sequence of course(s). No degree credit may be earned by Student Success courses, but institutional load credit is awarded for the term of enrollment.

### **ENGLISH**

Basic Composition (ENGL 0098)  
Pre-College Composition (ENGL 0099)

### **MATHEMATICS**

Beginning Algebra (MATH 0097)  
Intermediate Algebra (MATH 0098)  
Pre-College Algebra (MATH 0099)

### **READING**

Reading Workshop for Business Majors (READ 0091)  
Reading Workshop for Science Majors (READ 0092)  
Reading Workshop for Liberal Arts Majors (READ 0093)  
Basic Reading Skills (READ 0097)  
Advanced Reading Skills (READ 0098)

## ACADEMIC STANDARDS OF PROGRESS

### Course Load

Twelve (12) semester hours constitutes a full-time course load for each semester of enrollment. Any enrollment less than 12 semester hours constitutes a part-time course load for the semester of enrollment.

### Grading System

Student progress in a course is measured at the end of each semester in the form of a grade assigned by the course instructor based on the student's completion of course requirements as stated in the course syllabus. The grade for a course is officially recorded on the student's academic transcript in the Registrar's Office. The student is notified of his/her final grades via the college's web-based academic records system. Students who wish to have their grades mailed to them in paper form must complete a request form for that service in the Registrar's Office. Grade reports reflect a semester grade-point average as well as a cumulative grade-point average of all work completed at Georgia Gwinnett College.

### Grading Scale

Georgia Gwinnett College complies with the University System of Georgia uniform grading system. The final grades and their definitions are as follows:

<u>Final Grade</u>	<u>Definition</u>	<u>Quality Points per Credit Hour</u>
<b>A</b>	Excellent	4
<b>B</b>	Good	3
<b>C</b>	Satisfactory	2
<b>D</b>	Passing, but less than satisfactory	1
<b>F</b>	Failing	0
<b>WF</b>	Withdrew Failing	0

The minimum passing grade for most courses is the "D" grade. ENGL 1101, ENGL 1102, and MATH 1111 (or equivalent courses) must be passed with a minimum grade of "C." Courses in Area F of the Common Core as well as all courses in the student's major must be passed with a minimum grade of "C."

The following grade symbols will be used in the cases indicated but will not be included in computing the student's grade-point average:

**I** = indicates an incomplete grade for the course due to non-academic reasons which prohibited the student from completing the requirements for a course. The assignment of the "I" grade is at the discretion of the course instructor but should only be assigned if the student has completed satisfactory work up to the last two weeks of the semester then faced extreme personal hardships in completing the semester. Prior to the last two weeks of the semester, the grade assigned should be "W" or "WF."

Assignment of an "I" grade indicates that the instructor and the student have worked out a plan for completing the remaining course requirements. The deadline for removing an "I" grade is the midterm of the next semester in which the student is enrolled or by the end of one calendar year if the student is not enrolled. If the "I" grade is not removed within the defined time period, the "I" converts to a grade of "F" and is then factored into the student's grade-point average.

**IP** = indicates a student has made progress in a Learning Support course, but not sufficient progress to meet the requirements for the next course in the Learning Support sequence. The "IP" grade is not included in the calculation of the student's grade-point average.

**K** = indicates credit given by external examination (CLEP, AP, etc.). The "K" grade is not included in the calculation of the student's grade-point average.

**S** = indicates successful completion of the Regents' Writing Skills course and/or the Regents' Reading Skills course and successful completion of the corresponding Regents' Test. The "S" grade is not included in the calculation of the student's grade-point average.

**U** = indicates unsuccessful completion of the Regents' Writing Skills course and/or the Regents' Reading Skills course and unsuccessful completion of the corresponding Regents' Test. The "U" grade is not included in the calculation of the student's grade-point average..

**V** = indicates the student audited the course. The "V" grade is not included in the calculation of the student's grade point-average.



**W** = indicates that a student was permitted to withdraw without penalty. Withdrawals without penalty will not be permitted after midsemester except in cases of hardship as determined by the Registrar.

**WF** = indicates withdrawal with penalty (0 quality points are factored into the grade-point average). WF may be assigned by an instructor prior to midsemester if the student is not passing the course at the time of withdrawal. WF is also assigned for withdrawal after midsemester (except for cases of hardship as determined by the Registrar).

### Grade Changes

Errors in grades must be reported to the Office of the Registrar immediately by the course instructor. An instructor will not be permitted to change a student's grade in the web-based records system once the first grade has been posted. In general, no grade changes will be made after the end of the next semester after the grade was assigned, except with approval of the Vice President of Academic and Student Affairs. A petition for a grade change will not be accepted after the student's date of graduation.

### Mid-Term Grades

Instructors will post mid-term grades to the student's web-based academic record, but the mid-term grades do not calculate into the student's grade-point average for that semester nor into the student's cumulative grade-point average. The mid-term grade on a course is not an official grade report and therefore is not permanently recorded on the student's academic transcript; it is a periodic evaluation of the student's progress in a course in the middle of the semester.

### Repeated Courses

In the case of courses that are repeated, the higher grade will substitute for the lower grade on the student's academic degree evaluation. The higher grade will replace the lower grade in the computation of the student's GGC-GPA. **NOTE:** All grades may be factored into the cumulative GPA in compliance with certain financial aid programs and certain credentialing programs external to the College.

A student will be limited to two repeats of a course (a maximum of three attempts).

### Academic Standing

**Good Standing** -- Georgia Gwinnett College students are in Good Standing (making progress toward the required 2.00 grade-point average requirement for graduation) if their cumulative GGC grade-point average falls within the minimum acceptable range for the number of attempted hours plus transfer hours:

Semester Hours Attempted Plus Transfer Hours	Minimum Cumulative GPA (GGC Credit Only)
0-15	1.50
16-30	1.60
31-45	1.80
More than 45	2.00

**Academic Probation** – Students will be placed on academic probation when they have attempted the number of credit hours shown in the left column in the above table and have not earned at least the GGC-cumulative GPA shown in the corresponding right column. A student on academic probation will be restricted to a maximum of 14 semester hours of coursework in the subsequent semester of enrollment and may not represent the college in any official capacity (student organizations, athletics, etc.). A student on Academic Probation may be subject to a loss of certain financial aid funds and should check with the Financial Aid Office regarding Satisfactory Academic Progress regulations from Financial Aid.

**Continued Probation** – Students who earn a 2.00 GPA during any semester in which they are on probation, but do not raise their GGC-cumulative GPA sufficiently to be removed from probation, will continue on Academic Probation and thereby avoid immediate dismissal from the College.

**Academic Dismissal** – Following the probationary semester, students on Academic Probation will be dismissed from the College for a minimum of one semester unless:

- they remove themselves from probation by achieving the appropriate GGC-cumulative GPA given in the above table; **or**
- they achieve a 2.00 term GPA for the current semester of enrollment (see above).

After a first Academic Dismissal, a student may apply for re-admission after an absence of one semester (including the entire summer term). After a second Academic Dismissal, a student may apply for re-admission after an absence of one calendar year from the end of the semester in which the second dismissal occurred. Upon re-entry, the student enters the College on Academic Probation status and is subject to the cumulative GPA requirements listed above. After a third academic dismissal, a student is not eligible for readmission to Georgia Gwinnett College. Any exceptions to this policy must be appealed to the Vice President for Academic and Student Affairs.

### Recognition of Scholarship

**President's List** -- The President's List may include undergraduate students who achieve a 4.0 semester GPA in 12 or more hours. All work must be taken on a letter-graded basis and students must be in good academic standing. This distinction is noted on the academic transcript. Students will not be eligible for the President's List by virtue of repeated courses. A student who has been found responsible for a violation of the Academic Integrity Policy is not eligible for the President's List.

**Dean's List** -- The Dean's List may include students who complete 12 semester hours or more and achieve a minimum term grade-point average of 3.60 or higher. All work must be letter-graded with no grade below a C and students must be in good academic standing. Part-time students achieve Dean's List status if they complete at least 8 hours to 11 credit-bearing hours on a letter-graded basis, earn no grade below a C, and attain a grade point average of 3.6. Students are not eligible for the Dean's List by virtue of repeated courses. A student who has been found responsible for a violation of the Academic Integrity Policy is not eligible for the Dean's List.

### Graduation with Honors

Students graduating from Georgia Gwinnett College may qualify for one of three honors designations. Eligibility for one of these honors designations will be based on the cumulative GPA on courses at Georgia Gwinnett College at the time of the student's commencement. The appropriate honors designation will be noted on the student's diploma as well as on the student's academic transcript from Georgia Gwinnett College.

**Cum Laude:** Cumulative GGC-GPA = 3.50 to 3.74

**Magna Cum Laude:** Cumulative GGC-GPA = 3.75 to 3.874

**Summa Cum Laude:** Cumulative GGC-GPA = 3.875 to 4.00

## **ACADEMIC INTEGRITY**

Georgia Gwinnett College students are expected to adhere to the highest standards of academic integrity and are expected to encourage others to do the same. Further, students are expected to take responsible action when there is reason to suspect dishonesty on the part of others. While it is not possible to list all acts of academic dishonesty, examples include:

**Cheating:** This act of dishonesty includes giving information to or taking information from other students during examinations. Cheating is also committed when students copy from unauthorized sources and/or represent some other person's work as their own. Collaboration on out-of-class assignments or examinations is considered to be cheating if prohibited by the professor.

**Plagiarism:** This category includes copying material from unpublished or published sources, including electronic resources, and submitting that material as the student's own work. Students are responsible for identifying the proper source and for giving credit to that source anytime that they present ideas which are not their own.

**Collusion:** This act of dishonesty includes buying or selling material which will be misrepresented as a student's own work. In addition, students who fail to report known acts of academic dishonesty on the part of others are guilty of collusion.

**Previously submitted material:** Students must not submit work which has been or is being concurrently submitted, in whole or in part, in another class without first having received the permission of all the professors involved.

**Misrepresentation or falsification of material:** This act includes misrepresenting, fabricating, or altering academic material, such as transcripts, diplomas, grades or records, professors' or administrators' signatures or initials. In addition, students must not take an examination or test in the name of another student or present another student's work as their own.

**Misrepresentation of circumstances:** Students must not misrepresent personal circumstances (e.g., illness, conflicting responsibilities, etc.) to avoid meeting academic responsibilities.

Academic dishonesty carries severe penalties ranging from a grade of "0" on the affected assignment to dismissal from Georgia Gwinnett College. Each faculty member at Georgia Gwinnett College bears the responsibility for assigning penalties for cases of academic dishonesty. Students may appeal a penalty for academic dishonesty to the Academic Dean of the School in which the course is taught or to the Vice President for Academic and Student Affairs. The decision of the Vice President for Academic and Student Affairs is considered to be final. In cases of dismissal from college, the student may appeal to the President utilizing procedures outlined in the Student Code of Conduct for "Further Review for Cases Resulting in Suspension, Expulsion, Charter Suspension/Revocation and Revocation of College Registration."

## **PROGRAM COMPLETION**

Upon completion of the student's degree requirements and any other requirements listed below and upon recommendation and approval by the College faculty, Georgia Gwinnett College students will receive a diploma reflecting their graduation with a Bachelor's degree in their chosen major.

### **Undergraduate Degree Requirements**

1. Georgia Gwinnett College requires all students to complete at least thirty (30) semester hours of credit in residence prior to graduation. A student is defined to be "in residence" when (s)he is taking Georgia Gwinnett College courses. Transient courses taken at another institution and courses transferred from other colleges are not considered to qualify a student as "in residence." Typically, the last 30 semester hours of a student's academic program satisfies the requirement to be "in residence." Alternative arrangements to using the last 30 semester hours of the student's academic program must be approved by the appropriate School Dean with notification of the approval sent to the Registrar's Office. Under no circumstances will a student be permitted to graduate from Georgia Gwinnett College without satisfying the "in residence" requirement.
2. A student must be in good academic standing at the time of graduation.
3. A Bachelor's Degree requires a minimum of 120 semester hours of academic courses numbered 1000 and above. Courses numbered below 1000 do not count toward the fulfillment of the hours required for graduation. Hours earned in any school of the College may be used to satisfy the requirements of any undergraduate degree. However, students must fulfill all program requirements of the particular degree and major of choice.
4. A cumulative Georgia Gwinnett College grade point average of 2.0 or higher is required for graduation. Students must also have at least a 2.0 average in the minimum requirements for a major, concentration, specialization, or minor. Individual schools require higher than 2.0 averages for admission to some programs and to meet graduation requirements in certain courses. Students should see the specific requirements of their program of study.

### **General Education**

The General Education program at Georgia Gwinnett College is an outcomes-based curriculum that is consistent with GGC's mission and vision. GGC has determined the outcomes expected of a student completing the program. Thus, GGC expects its general education program will produce engaged and informed citizens who:

- Clearly communicate ideas in written and oral form
- Demonstrate critical and creative thinking
- Demonstrate science literacy
- Demonstrate a broad understanding of diversity
- Understand and effectively use information technology
- Understand global issues and perspectives
- Understand the role of history in human development and national and world affairs
- Understand human and institutional behavior from a political, social, and global perspective
- Appreciate human endeavors in literature and the arts

These core competencies represent the intellectual skills and knowledge required of an educated person in a diverse, global, and technologically-oriented society. In addition, these core competencies represent a multidisciplinary foundation on which the major programs of study build an interdisciplinary component to a student's chosen specialization. Thus, the general education program becomes the key to a fulfilling life of self-knowledge, self-reflection, critical awareness, and lifelong learning.

Incoming freshmen students should use the table below to assure they meet all the course requirements of the General Education program.

<b>GGC Core Curriculum Requirements</b> <b>Choose one or two courses from each of the following blocks as indicated:</b>	
ENGL 1101 <i>and</i> ENGL 1102	<i>Take both</i>
MATH 1111 (College Algebra) MATH 1113 (Pre-Calculus) MATH 2200 (Calculus I) –(Prerequisite: MATH 1113)	<i>Choose one</i> Business and Psychology majors take MATH 1111 or higher. Biology and Information Technology majors must take MATH 1113 or MATH 2200
ITEC 1001 (Introduction to Computing) or higher	If testing indicates sufficient proficiency in introductory computing the student will take both ITEC 2110 and ITEC 2120 below
ITEC 2110 (Digital Media) ITEC 2120 (Introduction to Programming) –(Prerequisite: ITEC 1001 or demonstrated proficiency)	<i>Choose one or take both as indicated above</i>
PHYS 1101-1101L <i>and</i> PHYS 1102-1102L (Physical Sciences I & II) BIOL 1101-1101L <i>and</i> BIOL 1102 (Biological Sciences I & II) CHEM 1211-1211L <i>and</i> CHEM 1212-1212L (Principles of Chemistry I & II)	<i>Choose a sequence</i> Business and Psychology majors take the physical or biological sciences sequence. Biology and Information Technology majors take the Principles of Chemistry sequence
HIST 2111 <i>and</i> HIST 2112 (U.S. History I & II) HIST 1111 <i>and</i> HIST 1112 (World History I & II) HIST 1121 <i>and</i> HIST 1122 (Western Civilization I & II)	<i>Choose a sequence</i>
POLS 1101 (American Government)	If proficiency (including Georgia history and constitution) is demonstrated the student may choose two of the social science courses below.
PSYC 1102 (The Psychological Experience) SOVI 1101 (Introduction to Sociology) ANTH 1102 (Introduction to Anthropology) ECON 2100 (Introduction to Economics)	<i>Choose one</i> Psychology majors do not take PSYC 1102 Business majors do not take ECON 2100
Intermediate-level (2000) or higher in Spanish, French, or Chinese) RELN 1100 (World Religions) GEOG 1101 (Human Geography)	<i>Choose one</i>
MUSC 1100 (Music Appreciation), FILM 1005 (Intro to Film) ARTS 1100 (Art Appreciation) ENGL 2110 (World Literature) ENGL 2100 (TransAtlantic English Literature)	<i>Choose one</i>

Students transferring to GGC should be aware of the following University System of Georgia policies:

- Students will receive full credit into GGC if they complete the 60 credit hours of the Core Curriculum at their previous institution and do not change their major at GGC.
- Students who do not complete the entire Core Curriculum at a previous institution will receive full credit for any A-F area that they have completed if they transfer to GGC without changing their major.

- Students who change majors upon transfer or later may be required to take additional courses to meet degree requirements.

Students transferring into or out of GGC may use the table below to assure completion of all General Education requirements.

<p><b>Area A – Essential Skills (9 to 10 hrs)</b> <i>(Depending on major)</i></p>	<p>ENGL 1101 <i>and</i> ENGL 1102 (English Comp I &amp; II) <i>and</i> MATH 1111 (College Algebra) <i>or</i> MATH 1113 (Pre-Calculus) <i>or</i> MATH 2200 (Calculus I) <i>or</i> higher math</p>
<p><b>Area B – Institutional Option (4 hrs)</b></p> <ul style="list-style-type: none"> <li>• Information Technology (4 hrs)</li> </ul>	<p>ITEC 1001 (Introduction to Computing)</p>
<p><b>Area C – Humanities/Arts (6 hrs)</b></p> <ul style="list-style-type: none"> <li>• Arts/Literature (3 hrs)</li> <li>• Global Culture (3 hrs)</li> </ul>	<p>MUSC 1100 (Music Appreciation) <i>or</i> ARTS 1100 (Art Appreciation) FILM 1005 (Intro to Film) <i>or</i> ENGL 2110 (World Literature) <i>or</i> ENGL 2100 (Trans-Atlantic English Literature)</p> <p>RELN 1100 (World Religions) <i>or</i> GEOG 1101 (Human Geography) <i>or</i> one semester of intermediate level foreign language (2001 or higher in Spanish, French, or Chinese)</p>
<p><b>Area D – Science, Mathematics, and Technology (11 hrs)</b></p> <ul style="list-style-type: none"> <li>• Science (7 hrs)</li> <li>• Information Technology (4 hrs)</li> </ul>	<p><i>Choose one sequence:</i> PHYS 1101-1101L <i>and</i> PHYS 1102-1102L (Physical Sciences I &amp; II) BIOL 1101-1101L <i>and</i> BIOL 1102 (Biological Sciences I &amp; II) CHEM 1211-1211L <i>and</i> CHEM 1212 (Principles of Chemistry I &amp; II)</p> <p>ITEC 2110 (Digital Media) <i>or</i> ITEC 2120 (Introduction to Programming)</p>
<p><b>Area E – Social Sciences (12 hrs)</b></p> <ul style="list-style-type: none"> <li>• History (6 hrs)</li> <li>• Human and Institutional Behavior (6 hrs)</li> </ul>	<p><i>Choose one sequence:</i> HIST 2111 <i>and</i> HIST 2112 (U.S. History I &amp; II) HIST 1111 <i>and</i> HIST 1112 (World History I &amp; II) HIST 1121 <i>and</i> HIST 1122 (Western Civilization I &amp; II)</p> <p>POLS 1101 (American Government) <i>Choose one of the following (If proficiency in American Politics and Georgia history and constitution is demonstrated choose two of the following)</i> PSYC 1102 (The Psychological Experience) <i>or</i> SOCI 1101 (Introduction to Sociology) <i>or</i> ANTH 1102 (Introduction to Anthropology) <i>or</i> ECON 2100 (Introduction to Economics)</p>
<p><b>Area F – Pre-Requisites for Major (18 hours)</b></p>	<p>Requirements to be determined by the academic program</p>

In addition to the above 60 hour core curriculum students with less than 30 hours will be required to take GGC 1000 First Year Experience Course. GGC 1000 is a course that will be designed to provide a foundation for

students to achieve success in their total academic experience. All full-time students with fewer than 30 credit hours are required to sign up for GGC 1000 during Orientation.

### Upper-Division Major Requirements

Each graduate must complete all curriculum and related requirements for one specific major as listed in the appropriate section of the catalog. In addition to courses, graduation requirements may include GPA minimums, experiential learning, residency regulations, assessments, examinations, remedial work, or other requirements as explained in the catalog or official program handbooks. Unless otherwise stated, all upper division courses in baccalaureate degree programs require a minimum grade of C. At least 39 semester hours must be taken at the 3000 level or above.

### Regents' Courses and Testing

The University System of Georgia requires that each student receiving a degree must have successfully demonstrated competence in reading comprehension and writing by passing two courses: Regents' Writing Skills and Regents' Reading Skills. Students can satisfy course requirements through examination. The Regents' Testing Program of the University System of Georgia is administered by the Testing Center at Georgia Gwinnett College for three days each semester. Testing dates and registration procedures are in the Class Schedule and Registration Guide each semester under REGE 0001.

The two Regents' courses, Regents' Reading Skills (RGTR 0198) and Regents' Writing Skills (RGTE 0199), are designed to certify basic college-level competency in reading and writing for all students in institutions of the University System of Georgia. Each course carries three hours of institutional load credit for the specific semester of enrollment; these hours do not accumulate toward graduation earned hours totals. Students who wish to earn a baccalaureate degree from Georgia Gwinnett College must pass both Regents' courses or satisfy the course requirements by examination.

Students enrolled in a Regents' course must pass the appropriate part of the Regents' Test in order to receive a passing grade for the course. A grade of "U" is awarded for those who do not meet course requirement or those who complete the course but do not pass the appropriate portion of the Regents' Test. Students who pass both the course and the test would receive a grade of "S."

Students who choose to take the Regents' Test before they have earned 45 hours of credit but who do not pass both parts may repeat the part(s) not passed without taking the Regents' courses until they have accumulated 45 or more hours of coursework. Students who have 45 or more hours of coursework and have not passed either or both parts are required to take the appropriate Regents' course(s) during each subsequent semester of enrollment.

Any student who has completed at least 45 hours of credit and has not satisfied course requirements for one or both Regents' courses must enroll in the course(s) during the next semester of attendance and must take the appropriate course(s) in every semester of enrollment until both courses are passed. The student will not be allowed to register for any course numbered 1000 or higher unless he or she is also enrolled in the appropriate Regents' course(s). A student may not withdraw from a Regents' course while remaining in any course numbered 1000 or higher. Students may satisfy one or both course requirements through examination by passing the Regents' Test before completing 45 hours of credit or by an approved alternative test in reading comprehension or in writing.

### Satisfying Regents' Course Requirements

- a) Regents' Test. Students who pass the reading portion of the Regents' Test are exempted from RGTR0198, and students who pass the essay portion of the Regents' Test are exempted from RGTE0199. This exemption option is only available to students who have completed fewer than 45 credit hours of course work.
- b) High SAT Verbal/ACT Reading Score. Students who enter Georgia Gwinnett College with standardized test scores at the following level are exempted from RGTR0198: 510V on SAT-I or 23R on ACT. Important note: For this exemption, the SAT or ACT must have been taken at a national administration; in other words, students who have taken the institutional version of the SAT or the residual version of the ACT may not exempt the Regents' courses in this manner.
- c) AP, IB, or SAT II Essay Score. Students who enter Georgia Gwinnett College with standardized test scores at the following level are exempted from RGTE0199: 3 on AP English or 4 on IB English or 650 on SAT II writing.

- d) Bachelor's Degree. Students who already hold a baccalaureate degree from a regionally accredited institution of higher education are exempted from both Regents' courses and from the Regents' Test.

### Constitution and History Requirement

Georgia law requires that each candidate for a degree demonstrate knowledge of the history and constitution on the United States and Georgia. These requirements may be met by receiving a passing grade in certain courses, or by passing the appropriate examination. The courses and the requirement(s) each course satisfies are as follows:

1. HIST 2111/2112 satisfies the Georgia and US history requirement
2. POLS 1101 satisfies the Georgia and US Constitution requirement
3. Students with transfer credit (HIST 2111, HIST 2112 or POLS 1101) from outside the University System of Georgia will need to contact the Testing Center regarding the legislative exams requirement.

### Notice of Change

It should be noted that program and course requirements and college policies are subject to change without advanced notice. Changes in policy and requirements enacted by the Board of Regents take precedence over existing college policies and requirements. Georgia Gwinnett College will make reasonable efforts to accommodate students affected by such changes but reserves the right to determine where and to what extent it will grant exceptions to new policies and requirements. In such cases, program requirements that were published in Georgia Gwinnett College catalogs that are more than 10 years old will not be honored without specific approval of the School Dean responsible for the program. Georgia Gwinnett College may elect to apply the policies or program requirements of an earlier catalog if the student was enrolled at the time that the earlier catalog was in effect. Students will not be permitted to mix or split requirements for graduation from more than one catalog.

### Transient Course Enrollment

Georgia Gwinnett College will offer all required coursework for all degree programs. A specific course may not be offered in a specific semester to meet a student's desire for enrollment in that course. Students may be able to take courses on a transient basis at other colleges or universities at times in which the specific course may not be available for enrollment. Transient enrollment requires approval by both institutions. Georgia Gwinnett College students seeking transient approval should coordinate the process with his/her academic advisor and the Office of the Registrar.



# **PROGRAMS OF STUDY**

## **BACHELOR OF BUSINESS ADMINISTRATION**

The School of Business offers the Bachelor of Business Administration, B.B.A., degree with concentrations in Accounting, Finance, General Business, and Marketing.

### **CURRICULUM**

#### **General Education Requirements**

**(60 hours)**

The primary objective of the general education requirements is to guarantee that all students seeking a Bachelor in Business Administration (BBA) degree will share a common body of knowledge drawn from a broad spectrum of subject areas.

#### **Major Requirements**

**(60 hours)**

The major requirements consist of three areas of study: Business Core, Concentration, and General Electives. The Business Core is designed to ensure that students receiving the BBA degree will share a common body of knowledge needed for a wide range of private and public sector organizations. Concentration courses allow students to delve further into areas of specialization. General Electives give students an opportunity to explore topics of interest at an advanced level.

The following program goals and specific learning objectives are a result of a School of Business faculty consensus and reflect what knowledge and abilities would be expected as a result of BBA completion. These outcomes reflect general business knowledge, analytical and cognitive skills and discipline-specific information. Thus, a graduate with a BBA degree with a concentration in **Accounting, Finance, General Business** or **Marketing** will:

1. Demonstrate the ability to make decisions and to think critically based on the acquisition of theoretical and applied business knowledge.
  - Students will be able to identify key assumptions used in business decision-making.
  - Students will be able to examine business issues and problems using appropriate analytical techniques.
  - Students will have an understanding of the cross-functional and interdisciplinary nature of business issues and decisions.
  - Students will be able to conduct a strategic analysis of a real or simulated business organization.
  - Students will have an understanding of key concepts the business disciplines (i.e., management, marketing, economics/finance).
2. Demonstrate an understanding of the importance of ethical, legal and economic perspectives in contemporary business environments.
  - Students will be able to identify and apply a framework for examining ethical dilemmas in business situations.
  - Students will be able to identify key concepts in business.
  - Students will be able to critique business decisions with regard to social responsibility.
3. Students will have an understanding of global business issues.
  - Students will be able to identify current global issues in light of their effect on business opportunities and decisions.
  - Students will be able to demonstrate understanding of cultural similarities and differences and their effects on organizations.
4. Demonstrate effective oral and written communication.
  - Students will be able to create well written documents on a business issue or problem.
  - Students will be able to deliver an effective oral presentation on a business topic.
  - Students will use appropriate technologies to enhance their written and oral presentations.

**Bachelor of Business Administration (BBA)**

Concentration -- Accounting

120 semester hours required  
for graduation

**General Education (60 semester hours)**

**AREA A – Essential Skills (9 semester hours)**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1111 (College Algebra) or higher	3

**AREA B – Institutional Option (4 semester hours)**

ITEC 1001 (Introduction to Computing)	4
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**AREA C – Humanities/Fine Arts (6 semester hours)**

Select One of the following: 3

MUSC 1100 (Music Appreciation)	
FILM 1005 (Introduction to Film)	
ARTS 1100 (Art Appreciation)	
ENGL 2100 (World Literature)	
ENGL 2110 (TransAtlantic English Literature)	

AND One of the following 3

RELN 1100 (World Religions)	
GEOG 1101 (Human Geography)	
Intermediate level foreign language (Spanish, French, or Chinese)	

**AREA D – Natural Sciences, Math, Technology  
(11 semester hours)**

Choose one sequence: 7

PHYS 1101-1101L and PHYS 1102-1102L (Physical Sciences I & II)	
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BIOL 1101-1101L and BIOL 1102 (Biological Sciences I & II)	
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Select One of the following: 4

ITEC 2110 (Digital Media)	
ITEC 2120 (Introduction to Programming)	

**AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
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Choose one sequence: 6

HIST 2111 and HIST 2112 (U.S. History I & II)	
HIST 1111 and HIST 1112 (World History I & II)	
HIST 1121 and HIST 1122 (Western Civilization I & II)	

Select One of the following: 3

SOCI 1101 (Introduction to Sociology)	
ANTH 1102 (Introduction to Anthropology)	
PSYC 1102 (The Psychological Experience)	

**AREA F – Courses Related to the Program of Study  
(18 semester hours)**

ACCT 2101 (Principles of Accounting I)	3
ACCT 2102 (Principles of Accounting II)	3
BUSA 2105 (Communications in Business Environment)	3
BUSA 2106 (The Environment of Business)	3
ECON 2105 (Principles of Macroeconomics)	3
ECON 2106 (Principles of Microeconomics)	3

**PROGRAM OF STUDY (60 semester hours)**

A minimum of 39 hours must be at the 3000-4000 level

**Required Business Courses (36 semester hours)**

BUSA 2000 (Statistical Analysis for Business)	3
BUSA 3100 (Management Information Systems)	3
BUSA 3200 (Global Business)	3
BUSA 3500 (Legal Environment of Business)	3
FINA 3000 (Principles of Finance)	3
MKTG 3000 (Principles of Marketing)	3
MGMT 3000 (Principles of Management)	3
MGMT 3040 (Human Resource Management)	3
MGMT 3400 (Ethics and Corporate Social Responsibility)	3
MGMT 4100 (Organizational Behavior)	3
MGMT 4600 (Operations and Project Management)	3
MGMT 4700 (Strategic Management – Capstone)	3

**Accounting Concentration (18 semester hours)**

BUSA 3000 (Applied Business Statistics)	3
ACCT 3101 (Financial Accounting and Reporting I)	3
ACCT 3102 (Financial Accounting and Reporting II)	3
Accounting Electives (must be at the 3000/4000 level)	9

**General Electives (6 semester hours)**

Must be 2000 level or above and outside The School of Business

**Bachelor of Business Administration (BBA)**

Concentration -- Finance

120 semester hours required  
for graduation

**General Education (60 semester hours)**

**AREA A – Essential Skills (9 semester hours)**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1111 (College Algebra) or higher	3

**AREA B – Institutional Option (4 semester hours)**

ITEC 1001 (Introduction to Computing)	4
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**AREA C – Humanities/Fine Arts (6 semester hours)**

<i>Select One of the following:</i>	3
MUSC 1100 (Music Appreciation)	
FILM 1005 (Introduction to Film)	
ARTS 1100 (Art Appreciation)	
ENGL 2100 (World Literature)	
ENGL 2110 (TransAtlantic English Literature)	
AND <i>One of the following</i>	3
RELN 1100 (World Religions)	
GEOG 1101 (Human Geography)	
Intermediate level foreign language (Spanish, French, or Chinese)	

**AREA D – Natural Sciences, Math, Technology  
(11 semester hours)**

<i>Choose one sequence:</i>	7
PHYS 1101-1101L and PHYS 1102-1102L (Physical Sciences I & II)	
BIOL 1101-1101L and BIOL 1102 (Biological Sciences I & II)	

<i>Select One of the following:</i>	4
ITEC 2110 (Digital Media)	
ITEC 2120 (Introduction to Programming)	

**AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
<i>Choose one sequence:</i>	6
HIST 2111 and HIST 2112 (U.S. History I & II)	
HIST 1111 and HIST 1112 (World History I & II)	
HIST 1121 and HIST 1122 (Western Civilization I & II)	
<i>Select One of the following:</i>	3
SOCI 1101 (Introduction to Sociology)	
ANTH 1102 (Introduction to Anthropology)	
PSYC 1102 (The Psychological Experience)	

**AREA F – Courses Related to the Program of Study  
(18 semester hours)**

ACCT 2101 (Principles of Accounting I)	3
ACCT 2102 (Principles of Accounting II)	3
BUSA 2105 (Communications in Business Environment)	3
BUSA 2106 (The Environment of Business)	3
ECON 2105 (Principles of Macroeconomics)	3
ECON 2106 (Principles of Microeconomics)	3

**PROGRAM OF STUDY (60 semester hours)**

*A minimum of 39 hours must be at the 3000-4000 level*

**Required Business Courses (36 semester hours)**

BUSA 2000 (Statistical Analysis for Business)	3
BUSA 3100 (Management Information Systems)	3
BUSA 3200 (Global Business)	3
BUSA 3500 (Legal Environment of Business)	3
FINA 3000 (Principles of Finance)	3
MKTG 3000 (Principles of Marketing)	3
MGMT 3000 (Principles of Management)	3
MGMT 3040 (Human Resource Management)	3
MGMT 3400 (Ethics and Corporate Social Responsibility)	3
MGMT 4100 (Organizational Behavior)	3
MGMT 4600 (Operations and Project Management)	3
MGMT 4700 (Strategic Management – Capstone)	3

**Finance Concentration (18 semester hours)**

BUSA 3000 (Applied Business Statistics)	3
BUSA 3600 (Telecommunications/Network Design and Integration)	3
FINA 4101 (International Finance) OR ECON 4101 (International Economics)	3
BUSA 4751 (Business Internship/Experiential Learning) (or Business Elective at the 4000 level)	3
Finance Electives (must be at the 3000/4000 level)	6

**General Electives (6 semester hours)**

Must be 2000 level or above and outside The School of Business

## **Bachelor of Business Administration (BBA)**

### Concentration – General Business

120 semester hours required  
for graduation

#### **General Education (60 semester hours)**

##### **AREA A – Essential Skills (9 semester hours)**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1111 (College Algebra) or higher	3

##### **AREA B – Institutional Option (4 semester hours)**

ITEC 1001 (Introduction to Computing)	4
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##### **AREA C – Humanities/Fine Arts (6 semester hours)**

###### *Select One of the following:* 3

MUSC 1100 (Music Appreciation)	
FILM 1005 (Introduction to Film)	
ARTS 1100 (Art Appreciation)	
ENGL 2100 (World Literature)	
ENGL 2110 (TransAtlantic English Literature)	

###### AND *One of the following* 3

RELN 1100 (World Religions)	
GEOG 1101 (Human Geography)	
Intermediate level foreign language (Spanish, French, or Chinese)	

##### **AREA D – Natural Sciences, Math, Technology (11 semester hours)**

###### *Choose one sequence:* 7

PHYS 1101-1101L and PHYS 1102-1102L (Physical Sciences I & II)	
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BIOL 1101-1101L and BIOL 1102 (Biological Sciences I & II)	
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###### *Select One of the following:* 4

ITEC 2110 (Digital Media)	
ITEC 2120 (Introduction to Programming)	

##### **AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
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###### *Choose one sequence:* 6

HIST 2111 and HIST 2112 (U.S. History I & II)	
HIST 1111 and HIST 1112 (World History I & II)	
HIST 1121 and HIST 1122 (Western Civilization I & II)	

###### *Select One of the following:* 3

SOCI 1101 (Introduction to Sociology)	
ANTH 1102 (Introduction to Anthropology)	
PSYC 1102 (The Psychological Experience)	

##### **AREA F – Courses Related to the Program of Study (18 semester hours)**

ACCT 2101 (Principles of Accounting I)	3
ACCT 2102 (Principles of Accounting II)	3
BUSA 2105 (Communications in Business Environment)	3
BUSA 2106 (The Environment of Business)	3
ECON 2105 (Principles of Macroeconomics)	3
ECON 2106 (Principles of Microeconomics)	3

#### **PROGRAM OF STUDY (60 semester hours)**

A minimum of 39 hours must be at the 3000-4000 level

##### **Required Business Courses (36 semester hours)**

BUSA 2000 (Statistical Analysis for Business)	3
BUSA 3100 (Management Information Systems)	3
BUSA 3200 (Global Business)	3
BUSA 3500 (Legal Environment of Business)	3
FINA 3000 (Principles of Finance)	3
MKTG 3000 (Principles of Marketing)	3
MGMT 3000 (Principles of Management)	3
MGMT 3040 (Human Resource Management)	3
MGMT 3400 (Ethics and Corporate Social Responsibility)	3
MGMT 4100 (Organizational Behavior)	3
MGMT 4600 (Operations and Project Management)	3
MGMT 4700 (Strategic Management – Capstone)	3

##### **General Business Concentration (18 semester hours)**

BUSA 3000 (Applied Business Statistics)	3
BUSA 3600 (Telecommunications/Network Design and Integration)	3
BUSA 4751 (Business Internship/Experiential Learning) (or Business Elective at the 4000 level)	3
Business Electives (must be at the 3000/4000 level) Must include one of the following:	9
ECON 4101 (International Economics)	
MKTG 4401 (International Marketing)	
BUSA 4500 (Studies Abroad)	

##### **General Electives (6 semester hours)**

Must be 2000 level or above and outside The School of Business

**Bachelor of Business Administration (BBA)**

Concentration -- Marketing

120 semester hours required  
for graduation

**General Education (60 semester hours)**

**AREA A – Essential Skills (9 semester hours)**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1111 (College Algebra) or higher	3

**AREA B – Institutional Option (4 semester hours)**

IITEC 1001 (Introduction to Computing)	4
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**AREA C – Humanities/Fine Arts (6 semester hours)**

*Select One of the following:* 3

MUSC 1100 (Music Appreciation)	
FILM 1005 (Introduction to Film)	
ARTS 1100 (Art Appreciation)	
ENGL 2100 (World Literature)	
ENGL 2110 (TransAtlantic English Literature)	

AND *One of the following* 3

RELN 1100 (World Religions)	
GEOG 1101 (Human Geography)	
Intermediate level foreign language (Spanish, French, or Chinese)	

**AREA D – Natural Sciences, Math, Technology  
(11 semester hours)**

*Choose one sequence:* 7

PHYS 1101-1101L and PHYS 1102-1102L (Physical Sciences I & II)	
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BIOL 1101-1101L and BIOL 1102 (Biological Sciences I & II)	
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*Select One of the following:* 4

IITEC 2110 (Digital Media)	
IITEC 2120 (Introduction to Programming)	

**AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
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*Choose one sequence:* 6

HIST 2111 and HIST 2112 (U.S. History I & II)	
HIST 1111 and HIST 1112 (World History I & II)	
HIST 1121 and HIST 1122 (Western Civilization I & II)	

*Select One of the following:* 3

SOCI 1101 (Introduction to Sociology)	
ANTH 1102 (Introduction to Anthropology)	
PSYC 1102 (The Psychological Experience)	

**AREA F – Courses Related to the Program of Study  
(18 semester hours)**

ACCT 2101 (Principles of Accounting I)	3
ACCT 2102 (Principles of Accounting II)	3
BUSA 2105 (Communications in Business Environment)	3
BUSA 2106 (The Environment of Business)	3
ECON 2105 (Principles of Macroeconomics)	3
ECON 2106 (Principles of Microeconomics)	3

**PROGRAM OF STUDY (60 semester hours)**

*A minimum of 39 hours must be at the 3000-4000 level*

**Required Business Courses (36 semester hours)**

BUSA 2000 (Statistical Analysis for Business)	3
BUSA 3100 (Management Information Systems)	3
BUSA 3200 (Global Business)	3
BUSA 3500 (Legal Environment of Business)	3
FINA 3000 (Principles of Finance)	3
MKTG 3000 (Principles of Marketing)	3
MGMT 3000 (Principles of Management)	3
MGMT 3040 (Human Resource Management)	3
MGMT 3400 (Ethics and Corporate Social Responsibility)	3
MGMT 4100 (Organizational Behavior)	3
MGMT 4600 (Operations and Project Management)	3
MGMT 4700 (Strategic Management – Capstone)	3

**Marketing Concentration (21 semester hours)**

MKTG 3050 (Consumer Behavior)	3
MKTG 4025 (Marketing Research)	3
MKTG 4400 (International Marketing)	3
MKTG 4751 (Business Internship/Experiential Learning) (or Marketing Elective at the 4000 level)	3
Marketing Electives (must be at the 3000/4000 level)	9

**General Electives (3 semester hours)**

Must be 2000 level or above and outside The School of Business

## **BACHELOR OF SCIENCE – BIOLOGY MAJOR**

The School of Science and Technology offers a Bachelor of Science (B.S.) degree with a major in Biology. The Biology Major includes concentrations in General Biology and Cell Biology and Biotechnology.

### **LABORATORY COURSES**

Many courses in the School of Science and Technology include both a class and a laboratory component. The laboratory and class components complement each other as integrated elements of a course that facilitate the accomplishment of the Course Outcome Goals. As such they cannot be separated. However, grades in the class and laboratory components are separate. Students must pass both the lab and class. If a student fails either the class or the laboratory component, they must repeat both.

### **CURRICULUM**

#### **Core Curriculum**

**(60 hours)**

The primary objective of the Core Curriculum is to guarantee that all students seeking a degree will be exposed to a common set of learning experiences that draw from a broad spectrum of subject areas. These common learning experiences are designed so that a student who completes the Core Curriculum will achieve the general education program goals as well as take introductory courses in the biology major that are prerequisite to courses in the program of study curriculum.

#### **Program of Study Curriculum**

**(60 hours)**

The courses in the Biology Major consist of both required and elective courses. The required courses are designed to ensure that all students receiving the BS Biology degree will share a common set of learning experiences toward achievement of the Program Outcome Goals. In addition, students will apply these learning experiences in the accomplishment of a research project or internship. Elective courses allow students to delve further into areas of specialization that provide breadth and/or depth of learning.

### **PROGRAMS OF STUDY**

#### **Bachelor of Science – Biology Major Concentration – General Biology**

##### ***I. Program Outcome Goals***

Graduates who complete the Biology Major (General Biology Concentration) will be able to:

1. Effectively and clearly communicate scientific information in written and oral form.
2. Use library and Internet resources to gather, organize, and understand scientific information.
3. Collect, present, and analyze scientific data gathered in the laboratory.
4. Understand basic chemistry and math and be able to apply them to a study of the life sciences.
5. Know the structures and functions of cells.
6. Know the structures and functions of biomolecules (DNA, proteins, lipids, carbohydrates).
7. Understand the structure-function relationships at all levels of organization of living organisms (molecules → cells → tissues → organs → organ systems → organism → population → ecosystem).
8. Understand the organization, diversity, and interdependence of living organisms.
9. Understand and gain an appreciation for the applications of the life sciences in Society.

## **Bachelor of Science (BS)**

Major – Biology; Concentration: General Biology

120 semester hours required  
for graduation

### **General Education (60 semester hours)**

#### **AREA A – Essential Skills (9 semester hours):**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1113 (Pre-calculus) or MATH 2200 (Calculus (extra hour will count in Area F))	4

#### **AREA B – Institutional Option 4 semester hours)**

IITEC 1001 (Introduction to Computing)

#### **AREA C – Humanities/Fine Arts (6 semester hours)**

##### **Select One of the following:**

MUSC 1100 (Music Appreciation)	3
FILM 1005 (Introduction to Film)	
ARTS 1100 (Art Appreciation)	
ENGL 2100 (World Literature)	
ENGL 2110 (TransAtlantic English Literature)	

##### **AND One of the following**

RELN 1100 (World Religions)	3
GEOG 1101 (Human Geography)	
Intermediate level foreign language (Spanish, French, or Chinese)	

#### **AREA D – Natural Sciences, Math, Technology**

**(11 semester hours)**

CHEM 1211-1211L (Principles of Chemistry I)	4
CHEM 1212-1212L (Principles of Chemistry II) (extra hour will count in Area F)	4

##### **Select one of the following:**

IITEC 2110 (Digital Media)	4
IITEC 2120 (Introduction to Programming)	

#### **AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
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##### **Choose one sequence:**

HIST 2111 and HIST 2112 (U.S. History I & II)	6
HIST 1111 and HIST 1112 (World History I & II)	
HIST 1121 and HIST 1122 (Western Civilization I & II)	

##### **Select One of the following:**

PSYC 1102 (The Psychological Experience)	3
SOCI 1101 (Introduction to Sociology)	
ANTH 1102 (Introduction to Anthropology)	
ECON 2100 (Introduction to Economics)	

#### **AREA F – Courses Related to the Program of Study**

**(18 semester hours)**

BIOL 1107-1107L (Principles of Biology I)	4
BIOL 1108-1108L (Principles of Biology II)	4
CHEM 2211-2211L (Organic Chemistry I)	4
CHEM 2212-2212L (Organic Chemistry II)	4

### **Program of Study (60 semester hours)**

A minimum of 39 hours must be at the 3000-4000 level

#### **Required Biology Courses (22 semester hours)**

BIOL 3500-3500L (Ecology)	4
BIOL 3100-3100L (Biochemistry)	4
BIOL 3200-3200L (Genetics)	4
BIOL 3400-3400L (Cell Biology)	4
BIOL 4700 (Interdisciplinary Applications of Biology)	3

##### **Choose one of the following**

BIOL 4500 (Undergraduate Research Project)	3
BIOL 4800 (Internship)	3

#### **Other Required Courses (11-15 semester hours)**

PHYS 2211-2211L (Principles of Physics I)	4
PHYS 2212-2212L (Principles of Physics II)	4
MATH 2000 (Statistics)	3
MATH 2200 (Calculus I)	4

(if not taken in Area A)

#### **General Biology Electives (8 semester hours)**

##### **Choose two of the following:**

BIOL 2500-2500L (Botany)	4
BIOL 2550-2550L (Zoology)	4
BIOL 3350-3350L (Mycology)	4
BIOL 3300-3300L (Microbiology)	4

#### **Additional Electives (15-19 semester hours)**

CHEM 3000-3000L (Analytical Chemistry)	4
CHEM 4100-4100L (Instrumental Chemistry)	4
BIOL 2500-2500L (Botany)	4
BIOL 2550-2550L (Zoology)	4
BIOL 3000 (Evolution)	3
BIOL 3300-3300L (Microbiology)	4
BIOL 3350-3350L (Mycology)	4
BIOL 3450 (Conservation Biology)	3
BIOL 3550-3550L (Limnology)	4
BIOL 3650-3650L (Terrestrial Ecology)	4
BIOL 3900 (Biotechnology)	3
BIOL 4270 (Virology)	3
BIOL 4310-4310L (Developmental Biology)	4
BIOL 4400-4400L (Medical Entomology)	4
BIOL 4500 (Undergraduate Research Project)	3
BIOL 4750 (Environmental Toxicology)	3
BIOL 4800 (Internship)	3

Students may take a maximum of 6 credit hours for BIOL 4500 (Undergraduate Research Project) and a maximum of 3 credit hours for BIOL 4800 (Internship)

## **PROGRAMS OF STUDY**

### **Bachelor of Science – Biology Major**

#### **Concentration – Cell Biology and Biotechnology**

##### ***I. Program Outcome Goals***

Graduates who complete the Biology Major (Cell Biology and Biotechnology Concentration) will be able to:

1. Effectively and clearly communicate scientific information in written and oral form.
2. Demonstrate proficiency in current laboratory techniques, data collection and analysis.
3. Use library and Internet resources to gather, organize, and understand scientific information.
4. Understand basic chemistry and math and be able to apply them to a study of the life sciences.
5. Know the basic structures and functions of cells.
6. Know the structures and functions of biomolecules (DNA, proteins, lipids, carbohydrates).
7. Know the difference in the structures and function between prokaryotic and eukaryotic cells and understand the diversity within these major cell types
8. Understand the use of cells and biomaterials in biotechnology.
9. Understand the capabilities of biotechnology in Society, as well as its technical and ethical limitations.



**Bachelor of Science (BS)**

Major – Biology; Concentration: Cell Biology and Biotechnology

120 semester hours required  
for graduation**General Education (60 semester hours)****AREA A – Essential Skills (9 semester hours):**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1113 (Pre-calculus) or MATH 2200 (Calculus I)	4
(extra hour will count in Area F)	

**AREA B – Institutional Option (4 semester hours)**

ITEC 1001 (Introduction to Computing)	
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**AREA C – Humanities/Fine Arts (6 semester hours)***Select one of the following:* 3

MUSC 1100 (Music Appreciation)	
FILM 1005 (Introduction to Film)	
ARTS 1100 (Art Appreciation)	
ENGL 2100 (World Literature)	
ENGL 2110 (TransAtlantic English Literature)	

AND *one of the following* 3

RELN 1100 (World Religions)	
GEOG 1101 (Human Geography)	
Intermediate level foreign language (Spanish, French, or Chinese)	

**AREA D – Natural Sciences, Math, Technology****(11 semester hours)**

CHEM 1211-1211L (Principles of Chemistry I)	4
CHEM 1212-1212L (Principles of Chemistry II)	4
(extra hour will count in Area F)	

*Select one of the following:* 4

ITEC 2110 (Digital Media)	
ITEC 2120 (Introduction to Programming)	

**AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
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*Choose one sequence:* 6

HIST 2111 and HIST 2112 (U.S. History I & II)	
HIST 1111 and HIST 1112 (World History I & II)	
HIST 1121 and HIST 1122 (Western Civilization I & II)	

*Select one of the following:* 3

PSYC 1102 (The Psychological Experience)	
SOCI 1101 (Introduction to Sociology)	
ANTH 1102 (Introduction to Anthropology)	
ECON 2100 (Introduction to Economics)	

**AREA F – Courses Related to the Program of Study****(18 semester hours)**

BIOL 1107-1107L (Principles of Biology I)	4
BIOL 1108-1108L (Principles of Biology II)	4
CHEM 2211-2211L (Organic Chemistry I)	4
CHEM 2212-2212L (Organic Chemistry II)	4

**Program of Study (60 semester hours)***A minimum of 39 hours must be at the 3000-4000 level***Required Biology Courses (26 semester hours)**

BIOL 3100-3100L (Biochemistry)	4
BIOL 3200-3200L (Genetics)	4
BIOL 3300-3300L (Microbiology)	4
BIOL 3900 (Biotechnology)	3
BIOL 4200 (Bioinformatics)	3
BIOL 4300 (Biotechnology Laboratory)	2
BIOL 4700 (Interdisciplinary Applications of Biology)	3

*Choose one of the following*

BIOL 4500 (Undergraduate Research Project)	3
BIOL 4800 (Internship)	3

**Other Required Courses (11-15 semester hours)**

PHYS 2211-2211L (Principles of Physics I)	4
PHYS 2212-2212L (Principles of Physics II)	4
MATH 2000 (Statistics)	3
MATH 2400 (Calculus I)	4

*(if not taken in Area A)***Additional Electives (19-23 semester hours)**

CHEM 3000-3000L (Analytical Chemistry)	4
CHEM 4100-4100L (Instrumental Chemistry)	4
BIOL 3000 (Evolution)	3
BIOL 3101-3101L (Human Anatomy, Physiology & Histology)	5
BIOL 3350-3350L (Mycology)	4
BIOL 4150 (Neurobiology)	3
BIOL 4250 (Human Genetics)	3
BIOL 4270 (Virology)	3
BIOL 4310-4310L (Developmental Biology)	4
BIOL 4400-4400L (Medical Entomology)	4
BIOL 4410-4410L (Industrial Microbiology)	4
BIOL 4450-4450L (Enzymology)	4
BIOL 4500 (Undergraduate Research Project)	3
BIOL 4540 (Immunology)	3
BIOL 4550 (Pharmacology)	3
BIOL 4800 (Internship)	3

Students may take a maximum of 6 credit hours for BIOL 4500 (Undergraduate Research Project) and a maximum of 3 credit hours for BIOL 4800 (Internship)

## ***BACHELOR OF SCIENCE – INFORMATION TECHNOLOGY MAJOR***

The School of Science and Technology offers a Bachelor of Science (B.S.) degree with a major in Information Technology. The Information Technology Major includes concentrations in Systems and Security, Software Development, and Business.

### **CURRICULUM**

#### **Core Curriculum**

**(60 hours)**

The primary objective of the Core Curriculum is to guarantee that all students seeking a degree will be exposed to a common set of learning experiences that draw from a broad spectrum of subject areas. These common learning experiences are designed so that a student who completes the Core Curriculum will achieve the general education program goals as well as take introductory courses in the Information Technology Major that are prerequisite to courses in the program of study curriculum.

#### **Program of Study Curriculum**

**(60 hours)**

The courses in the Information Technology Major consist of both required and elective courses. The required courses are designed to ensure that all students receiving the BS Information Technology degree will share a common set of learning experiences toward achievement of the Program Outcome Goals. In addition, students will apply these learning experiences in the accomplishment of a research project or internship. Elective courses allow students to delve further into areas of specialization that provide breadth and/or depth of learning.

### **PROGRAMS OF STUDY**

#### **Bachelor of Science – Information Technology Major**

##### **Concentration – Systems and Security**

##### ***I. Program Outcome Goals***

Graduates who complete the Information Technology Major (Systems and Security Concentration) will be able to:

1. Demonstrate a strong foundation in mathematics and science, and apply this fundamental knowledge to solving IT problems
2. Work as individuals and as members of a collaborative team that solve IT problems.
3. Demonstrate competence in effectively communicating technical information using oral, written, and digital presentation techniques
4. Demonstrate a desire and ability to continuously refine their computing knowledge and skills and learn to use new tools and processes
5. Demonstrate a working knowledge of multiple programming languages and system environments
6. Demonstrate knowledge in the design, implementation, and improvement of network and database systems
7. Identify information system requirements for a client and then develop information systems that meet those requirements
8. Demonstrate a working knowledge of security practices to optimize information assurance
9. Demonstrate a knowledge of current legal requirements for information and system security

**Bachelor of Science (BS)**

Major – Information Technology  
Concentration: Systems and Security

120 semester hours required  
for graduation

**General Education (60 semester hours)**

**AREA A – Essential Skills (9 semester hours):**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1113 (Pre-calculus) or MATH 2200 (Calculus I)	4
(extra hour will count in Area F)	

**AREA B – Institutional Option (4 semester hours)**

I TEC 1001 (Introduction to Computing)	4
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**AREA C – Humanities/Fine Arts (6 semester hours)**

**Select one of the following:**

MUSC 1100 (Music Appreciation)	3
FILM 1005 (Introduction to Film)	
ARTS 1100 (Art Appreciation)	
ENGL 2100 (World Literature)	
ENGL 2110 (TransAtlantic English Literature)	

**Select one of the following:**

RELN 1100 (World Religion)	3
GEOG 1101 (Human Geography)	
Intermediate-level Spanish, French, or Chinese or higher	

**AREA D – Natural Sciences, Math, Technology**

**(11 semester hours)**

CHEM 1211-1211L (Principles of Chemistry I)	4
CHEM 1212-1212L (Principles of Chemistry II)	4
I TEC 2120 (Introduction to Programming)	4
(extra hour will count in Area F)	

**AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
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**Choose one sequence:**

HIST 2111 and HIST 2112 (U.S. History I & II)	6
HIST 1111 and HIST 1112 (World History I & II)	
HIST 1121 and HIST 1122 (Western Civilization I & II)	

**Select one of the following:**

PSYC 1102 (The Psychological Experience)	3
SOCI 1101 (Introduction to Sociology)	
ANTH 1102 (Introduction to Anthropology)	
ECON 2100 (Introduction to Economics)	

**AREA F – Courses Related to the Program of Study (18**

**semester hours)**

MGMT 3000 (Principles of Management)	3
I TEC 1201 (Introduction to Information Systems)	3
I TEC 2150 (Intermediate Programming)	4
MATH 2000 (Statistics)	3
MATH 2300 (Discrete Math)	3

**Program of Study (60 semester hours)**

A minimum of 39 hours must be at the 3000-4000 level

**Required Information Technology Courses**

**(25 semester hours)**

I TEC 2110 (Digital Media)	
I TEC 3100 (Introduction to Networks)	3
I TEC 3200 (Introduction to Databases)	3
I TEC 3300 (Information Security)	3
I TEC 3700 (Systems Analysis and Design)	3
I TEC 3900 (Professional Practice and Ethics)	3
I TEC 4810 (Information Technology Project I)	3
I TEC 4820 (Information Technology Project II)	3

**Other Required Courses (11-15 semester hours)**

BUSA 3100 (Management Information Systems)	3
MATH 2200 (Calculus I)	4
(if not taken in Area A)	

Choose one basic science sequence:

PHYS 2211-2211L (Principles of Physics I)	4
PHYS 2212-2212L (Principles of Physics II)	4
or	
BIOL 1107-1107L (Principles of Biology I)	4
BIOL 1108-1108L (Principles of Biology II)	4

**Additional Electives (20-24 semester hours)**

I TEC 3150 (Object Oriented Programming)	3
I TEC 3350 (E Commerce)	3
I TEC 3450 (Computer Graphics and Multimedia)	4
I TEC 3550 (User Centered Design)	3
I TEC 3600 (Operating Systems)	3
I TEC 4100 (Advanced Networks)	3
I TEC 4110 (Advanced Digital Media)	4
I TEC 4130 (Human Computer Interaction)	3
I TEC 4200 (Advanced Databases)	4
I TEC 4310 (Systems Security)	3
I TEC 4320 (Internet Security)	3
I TEC 4900 (Information Technology Internship)	3
MGMT 4600 (Operations and Project Management)	3

## **PROGRAMS OF STUDY**

### **Bachelor of Science – Information Technology Major Concentration – Software Development**

#### ***I. Program Outcome Goals***

Graduates who complete the Information Technology Major (Software Development Concentration) will be able to:

1. Demonstrate a strong foundation in mathematics and science, and apply this fundamental knowledge to solving IT problems
2. Work as individuals and as members of a collaborative team that solve IT problems.
3. Demonstrate competence in effectively communicating technical information using oral, written, and digital presentation techniques
4. Demonstrate a desire and ability to continuously refine their computing knowledge and skills and learn to use new tools and processes
5. Demonstrate a working knowledge of multiple programming languages and system environments
6. Demonstrate knowledge in the design, implementation, and improvement of network and database systems
7. effectively apply software development practice over the entire lifecycle of a design project including the analysis, prototyping, design, implementation, and testing of the new design
8. Use software tools effectively in all phases of software development
9. Demonstrate knowledge of algorithms, operating systems, theory of computation, and computer architecture

**Bachelor of Science (BS)**

Major – Information Technology  
Concentration: Software Development

120 semester hours required  
for graduation

**General Education (60 semester hours)**

**AREA A – Essential Skills (9 semester hours):**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1113 (Pre-calculus) or MATH 2200 (Calculus I)	4
(extra hour will count in Area F)	

**AREA B – Institutional Option (4 semester hours)**

ITEC 1001 (Introduction to Computing)	4
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**AREA C – Humanities/Fine Arts (6 semester hours)**

Select one of the following: 3

- MUSC 1100 (Music Appreciation)
- FILM 1005 (Introduction to Film)
- ARTS 1100 (Art Appreciation)
- ENGL 2100 (World Literature)
- ENGL 2110 (TransAtlantic English Literature)

Select one of the following: 3

- RELN 1100 (World Religion)
- GEOG 1101 (Human Geography)
- Intermediate-level Spanish, French, or Chinese or higher

**AREA D – Natural Sciences, Math, Technology**  
**(11 semester hours)**

CHEM 1211-1211L (Principles of Chemistry I)	4
CHEM 1212-1212L (Principles of Chemistry II)	4
ITEC 2120 (Introduction to Programming)	4
(extra hour will count in Area F)	

**AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
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Choose one sequence: 6

- HIST 2111 and HIST 2112 (U.S. History I & II)
- HIST 1111 and HIST 1112 (World History I & II)
- HIST 1121 and HIST 1122 (Western Civilization I & II)

Select one of the following: 3

- PSYC 1102 (The Psychological Experience)
- SOCI 1101 (Introduction to Sociology)
- ANTH 1102 (Introduction to Anthropology)
- ECON 2100 (Introduction to Economics)

**AREA F – Courses Related to the Program of Study (18 semester hours)**

MGMT 3000 (Principles of Management)	3
ITEC 1201 (Introduction to Information Systems)	3
ITEC 2150 (Intermediate Programming)	4
MATH 2000 (Statistics)	3
MATH 2300 (Discrete Math)	3

**Program of Study (60 semester hours)**

A minimum of 39 hours must be at the 3000-4000 level

**Required Information Technology Courses**  
**(27 semester hours)**

ITEC 2110 (Digital Media)	4
ITEC 3100 (Introduction to Networks)	3
ITEC 3200 (Introduction to Databases)	3
ITEC 3860 (Software Development I)	4
ITEC 3870 (Software Development II)	4
ITEC 3900 (Professional Practice and Ethics)	3
ITEC 4260 (Software Testing and QA)	3
ITEC 4860 (Software Development Project)	3

**Other Required Courses (11-15 semester hours)**

BUSA 3100 (Management Information Systems)	3
MATH 2200 (Calculus I) (if not taken in Area A)	4

Choose one basic science sequence:

PHYS 2211-2211L (Principles of Physics I)	4
PHYS 2212-2212L (Principles of Physics II)	4
or	
BIOL 1107-1107L (Principles of Biology I)	4
BIOL 1108-1108L (Principles of Biology II)	4

**Additional Electives (18-22 semester hours)**

ITEC 3150 (Object Oriented Programming)	3
ITEC 3300 (Information Security)	3
ITEC 3350 (E Commerce)	3
ITEC 3450 (Computer Graphics and Multimedia)	4
ITEC 3550 (User Centered Design)	3
ITEC 3600 (Operating Systems)	3
ITEC 3700 (Systems Analysis and Design)	3
ITEC 4100 (Advanced Networks)	3
ITEC 4110 (Advanced Digital Media)	4
ITEC 4130 (Human Computer Interaction)	3
ITEC 4200 (Advanced Databases)	4
ITEC 4250 (Embedded Systems)	3
ITEC 4650 (Computer Game Software Development)	3
ITEC 4700 (Artificial Intelligence)	3
ITEC 4900 (Information Technology Internship)	3
MGMT 4600 (Operations and Project Mgmt)	3

## **PROGRAMS OF STUDY**

### **Bachelor of Science – Information Technology Major Concentration – Business**

#### ***I. Program Outcome Goals***

Graduates who complete the Information Technology Major (Business Concentration) will be able to:

1. Demonstrate a strong foundation in mathematics and science, and apply this fundamental knowledge to solving IT problems
2. Work as individuals and as members of a collaborative team that solve IT problems.
3. Demonstrate competence in effectively communicating technical information using oral, written, and digital presentation techniques
4. Demonstrate a desire and ability to continuously refine their computing knowledge and skills and learn to use new tools and processes
5. Demonstrate a working knowledge of multiple programming languages and system environments
6. Demonstrate knowledge in the design, implementation, and improvement of network and database systems
7. Have a strong foundation in business and management theory and practices and be able to apply this foundational knowledge to solving IT problems
8. Evaluate, propose and implement plans for effective use of information technology within organizations
9. Demonstrate knowledge of enterprise management in a heterogeneous environment

## **Bachelor of Science (BS)**

Major – Information Technology  
Concentration: Business

120 semester hours required  
for graduation

### **General Education (60 semester hours)**

#### **AREA A – Essential Skills (9 semester hours):**

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1113 (Pre-calculus) or MATH 2200 (Calculus I)	4
(extra hour will count in Area F)	

#### **AREA B – Institutional Option (4 semester hours)**

I TEC 1001 (Introduction to Computing)	4
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#### **AREA C – Humanities/Fine Arts (6 semester hours)**

##### **Select one of the following:**

MUSC 1100 (Music Appreciation)	3
FILM 1005 (Introduction to Film)	
ARTS 1100 (Art Appreciation)	
ENGL 2100 (World Literature)	
ENGL 2110 (TransAtlantic English Literature)	

##### **Select one of the following:**

RELN 1100 (World Religion)	3
GEOG 1101 (Human Geography)	
Intermediate-level Spanish, French, or Chinese or higher	

#### **AREA D – Natural Sciences, Math, Technology**

##### **(11 semester hours)**

CHEM 1211-1211L (Principles of Chemistry I)	4
CHEM 1212-1212L (Principles of Chemistry II)	4
I TEC 2120 (Introduction to Programming)	4
(extra hour will count in Area F)	

#### **AREA E – Social Science (12 semester hours)**

POLS 1101 (American Government)	3
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##### **Choose one sequence:**

HIST 2111 and HIST 2112 (U.S. History I & II)	6
HIST 1111 and HIST 1112 (World History I & II)	
HIST 1121 and HIST 1122 (Western Civilization I & II)	

##### **Select one of the following:**

PSYC 1102 (The Psychological Experience)	3
SOCI 1101 (Introduction to Sociology)	
ANTH 1102 (Introduction to Anthropology)	
ECON 2100 (Introduction to Economics)	

#### **AREA F – Courses Related to the Program of Study (18 semester hours)**

MGMT 3000 (Principles of Management)	3
I TEC 1201 (Introduction to Information Systems)	3
I TEC 2150 (Intermediate Programming)	4
MATH 2000 (Statistics)	3
MATH 2300 (Discrete Math)	3

### **Program of Study (60 semester hours)**

A minimum of 39 hours must be at the 3000-4000 level

#### **Required Information Technology Courses**

##### **(19 semester hours)**

I TEC 2110 (Digital Media)	4
I TEC 3100 (Introduction to Networks)	3
I TEC 3200 (Introduction to Databases)	3
I TEC 3350 (E Commerce)	3
I TEC 3900 (Professional Practice and Ethics)	3
I TEC 4900 (Information Technology Internship)	3

#### **Other Required Courses (14-18 semester hours)**

BUSA 3100 (Management Information Systems)	3
MGMT 4600 (Operations and Project Management)	3
MATH 2200 (Calculus I) (if not taken in Area A)	4

#### **Choose one basic science sequence:**

PHYS 2211-2211L (Principles of Physics I)	4
PHYS 2212-2212L (Principles of Physics II)	4

or

BIOL 1107-1107L (Principles of Biology I)	4
BIOL 1108-1108L (Principles of Biology II)	4

#### **Additional Business Electives (12 semester hours)**

ACCT 2101 (Accounting I)	3
ACCT 2102 (Accounting II)	3
ECON 2106 (Microeconomics)	3
MKTG 3000 (Marketing)	3
MKTG 3050 (Consumer Behavior)	3
MKTG 4600 (Promotion)	3

#### **Additional Information Technology Electives**

##### **(11-15 semester hours)**

I TEC 3300 (Information Security)	3
I TEC 3450 (Computer Graphics and Multimedia)	4
I TEC 3600 (Operating Systems)	3
I TEC 3700 (Systems Analysis and Design)	3
I TEC 4100 (Advanced Networks)	3
I TEC 4110 (Advanced Digital Media)	4
I TEC 4200 (Advanced Databases)	4
I TEC 4230 (Human Computer Interaction)	3

## **BACHELOR OF SCIENCE – PSYCHOLOGY MAJOR**

The School of Liberal Arts offers the Bachelors of Science degree with a major in Psychology with concentrations in Cognition/Learning, Biology/Neuroscience, Social/Applied, Clinical/Personality, & Developmental/Education. Students majoring in Psychology must complete a rigorous plan of study specifically focusing on identified program goals. The goals of the program have been identified as being key components that would enable students to transition seamlessly into a graduate program or workplace environment. All students are required to complete core courses related to the major. In addition, students will complete lower and upper level psychology courses representing more specialized areas in the field, and a maximum of three general electives to complement the major. The structure of the program provides students with a realistic view of career and educational options available in the field of psychology. Students demonstrate competence in the field of psychology through major coursework, seminars, and a final senior project.

### **CURRICULUM**

#### **General Education Requirements**

**(60 hours)**

The primary objective of the general education requirements is to guarantee that all students seeking a Bachelors of Science in Psychology (BS) degree will share a common body of knowledge drawn from a broad spectrum of subject areas.

#### **Major Requirements**

**(60 hours)**

The major requirements consist of three areas of study: Psychology Core, Concentrations, and Seminars. The Psychology Core is designed to ensure that students receiving the BS degree in Psychology will share a common body of knowledge needed to apply psychological principles both in the work place and academic settings. Concentration courses allow students to delve further into areas of specialization. Seminars give students an opportunity to explore and discuss topics of interest from a multidisciplinary perspective.

### **PROGRAM GOALS**

Students graduating from the Psychology Program will:

1. Understand a full spectrum of general theoretical approaches to Psychology.
2. Understand that psychology sub-disciplines are related.
3. Be able to relate theory to real world situations.
4. Understand basic topics of research methodology.
5. Understand the statistical tools appropriate to single variable and two variable analyses.
6. Demonstrate competence in communication (written, verbal, numeric & graphic)
7. Demonstrate competence in critical/analytic thinking.
8. Demonstrate the ability to apply Psychological theory and/or research methodology.
9. Demonstrate capacity to work collaboratively to solve problems.
10. Demonstrate appreciation of historical/philosophical context.
11. Understand that normative human behavior and experience is varied and multidimensional.
12. Demonstrate a commitment to the ethical foundations/ethical principles of psychology.

#### ***Course Prerequisites***

The following courses outline the minimum prerequisites for 3000/4000 level courses.

##### **Prerequisite for 3000 level courses:**

PSYC 1102 The Psychological Experience 3 semester hours

##### **Prerequisites for 4000 level courses:**

PSYC 1102 The Psychological Experience 3 semester hours

PSYC 2000 Sophomore Seminar  
or PSYC 2010 Writing in Psychology 3 semester hours

PSYC 3020 Research Methods and Analysis I 4 semester hours

PSYC 3030 Research Methods and Analysis II 4 semester hours

#### ***Other Program Notes***

Students will be required to complete one course from each of the Areas of Concentration listed on the Program of Study Outline on the next page. Upon completion of those courses, students are expected to choose two areas of specialization and complete three courses each in those areas of specialization. At least one course out of the three courses chosen in each area must be at the 4000 level.

Additional requirements for program completion include:

- Junior and Senior Seminar (including a Senior Project)
- Portfolio pertaining to a predetermined area of interest.



***Bachelor of Science (BS)***

Major – Psychology

*120 semester hours required  
for graduation*

***General Education (60 semester hours)***

***AREA A – Essential Skills (9 semester hours)***

ENGL 1101 (English Composition I)	3
ENGL 1102 (English Composition II)	3
MATH 1111 (College Algebra) or higher	3

***AREA B – Institutional Option (4 semester hours)***

ITEC 1001 (Introduction to Computing)	4
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***AREA C – Humanities/Fine Arts (6 semester hours)***

*Select one of the following:* 3

- MUSC 1100 (Music Appreciation)
- FILM 1005 (Introduction to Film)
- ARTS 1100 (Art Appreciation)
- ENGL 2100 (World Literature)
- ENGL 2110 (Transatlantic English Literature)

*Select one of the following:* 3

- RELN 1100 (World Religion)
- GEOG 1101 (Human Geography)
- Intermediate-level Spanish, French, or Chinese or higher

***AREA D – Natural Sciences, Math, Technology (11 semester hours)***

*Choose one sequence:* 7

- PHYS 1101-1101L and  
PHYS 1102-1102L (Physical Sciences I & II)
- BIOL 1101-1101L and  
BIOL 1102 (Biological Sciences I & II)

*Select one of the following:* 4

- ITEC 2110 (Digital Media)
- ITEC 2120 (Introduction to Programming)

***AREA E – Social Science (12 semester hours)***

POLS 1101 (American Government)	3
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*Choose one sequence:* 6

- HIST 2111 and HIST 2112 (U.S. History I & II)
- HIST 1111 and HIST 1112 (World History I & II)
- HIST 1121 and HIST 1122 (Western Civilization I & II)

*Select one of the following:* 3

- SOCI 1101 (Introduction to Sociology)
- ANTH 1102 (Introduction to Anthropology)
- ECON 2100 (Introduction to Economics)

***AREA F – Courses Related to the Program of Study (18 semester hours)***

PSYC 1102 The Psychological Experience	3
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*Select two of the following:* 6

- PSYC 2100 Introduction to Cognition & Learning,
- PSYC 2200 Introduction to Biological & Neuroscience Psychology
- PSYC 2300 Introduction to Social/Applied Psychology
- PSYC 2400 Introduction to Abnormal Psychology
- PSYC 2500 Introduction to Developmental Psychology

Two social science courses not chosen in Area E	6
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Semester of a foreign language	3
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***Program of Study (60 semester hours)***

*A minimum of 39 hours must be at the 3000-4000 level*

Three (3) Core Specialty Area Classes at 2000 level*	9
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Three (3) Concentration I Specialized courses**	9
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Three (3) Concentration II Specialized courses**	9
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*\* Students who choose courses not selected in Area F*

*\*\*For Concentrations I and II, at least one course for each Concentration cluster must be at the 4000 level.*

*(See next page for listing of concentrations and courses)*

PSYC 2000 Sophomore Seminar	3
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or PSYC 2010 Writings in Psychology

PSYC 3000 Junior Seminar	3
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PSYC 3020 Research Methods and Analysis I	4
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PSYC 3030 Research Methods and Analysis II	4
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PSYC 4603 Senior Directed Readings	1
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PSYC 4751 Psychology Internship	2
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PSYC 4000 Senior Seminar	3
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PSYC 4600 History and Systems	3
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General Electives (must be 3000-4000 level)	10
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***Bachelor of Science – Psychology Major  
Areas of Concentration in the Program of Study***

Cognitive/Learning

PSYC 2100 Introduction to Cognition & Learning  
PSYC 3100 Psychology of Learning  
PSYC 3110 Cognitive Psychology  
PSYC 3120 Sensation & Perception  
PSYC 4100 Concepts and Categorization  
PSYC 4110 Memory  
PSYC 4120 Language and Mind  
PSYC 4130 Cognitive Neuroscience  
PSYC 4140 Cognitive Gerontology  
PSYC 4150 Problem Solving

Developmental/Educational

PSYC 2500 Introduction to Developmental  
Psychology  
PSYC 3400 Personality Psychology  
PSYC 3500 Educational Psychology  
PSYC 3510 Child Development  
PSYC 3520 Adolescence  
PSYC 3530 Adult Development and Aging  
PSYC 3540 Gender and Sexuality  
PSYC 4500 Social & Moral Development  
PSYC 4510 Cultural & Ethnic Diversity  
PSYC 4410 Psychological Assessment  
  
PSYC 4520 Advanced Developmental Psychology  
PSYC 4530 Marriage and Family  
PSYC 4540 Black Psychology  
PSYC 4550 The Psychology of Hate  
PSYC 4560 Trauma Across the Lifespan  
PSYC 4570 Migration and Family

Clinical/Personality

PSYC 2400 Introduction to Abnormal Psychology  
PSYC 3400 Personality Psychology  
PSYC 3410 Psychopathology  
PSYC 3420 Health Psychology  
PSYC 4220 Psychopharmacology  
PSYC 4401 Community Health, Assessment, and  
Planning  
PSYC 4410 Psychological Assessment  
PSYC 4420 Clinical Psychology  
PSYC 4430 Developmental Psychopathology  
PSYC 4560 Trauma Across the Lifespan

Biological/Neuroscience

PSYC 2200 Introduction to Biological and  
Neuroscience of Psychology  
PSYC 3120 Sensation & Perception  
PSYC 3200 Biological Psychology  
PSYC 3220 Comparative Psychology  
PSYC 4200 Behavioral Neuroscience  
PSYC 4210 Cognitive Neuroscience  
PSYC 4220 Psychopharmacology

Social/Applied

PSYC 2300 Introduction to Social/Applied  
Psychology  
PSYC 3320 Human Diversity  
PSYC 3300 Advanced Social Psychology  
PSYC 3310 Human Sexuality  
PSYC 4300 Industrial and Organizational Psychology  
PSYC 4310 Psychology and Culture  
MGMT 4100 Organizational Behavior  
PSYC 4330 Sports Psychology  
PSYC 4340 Consumer Behavior  
PSYC 4350 Introduction to Forensic Psychology  
PSYC 4360 Political Psychology  
PSYC 4370 Psychology and the Legal System  
PSYC 4380 Psychology of Prejudice

## **MINORS**

### **MINOR IN BUSINESS ADMINISTRATION**

Minors, for students not pursuing the BBA degree, are offered in Business Administration. A 2.0 cumulative grade point average must be earned for the prescribed courses in the minor and at least 6 semester hours of Upper Division work (3000 and 4000 level) in the minor must be completed in residence.

The requirements for a minor in Business Administration include:

ACCT 2101 – Principles of Accounting I

ECON 2105 – Principles of Macroeconomics

ECON 2106 – Principles of Microeconomics

MGMT 3000 – Principles of Management

MKTG 3000 – Principles of Marketing

And one other upper division (3000 and 4000 level) business course selected in consultation with a faculty member in the School of Business. Entry into 3000 or 4000 level courses normally is limited to juniors and seniors. Courses used for a student's major may not be used toward a business minor.

## **COURSE DESCRIPTIONS**

This catalog contains a listing of all Georgia Gwinnett College approved courses. A course listed in this catalog does not imply that the course will be offered in Georgia Gwinnett College's Schedule of Classes for a specific year and term.

### **ACCOUNTING (ACCT)**

#### **ACCT 2101 – Principles of Accounting I (3)**

Prerequisite: MATH 1111; ITEC 1001.

Introduction to the concepts, principles and procedures pertaining to the collection and summarization of accounting information, and the preparation, analysis and interpretation of the income statement, retained earnings statement, balance sheet and cash flow statements.

#### **ACCT 2102 – Principles of Accounting II (3)**

Prerequisites: ACCT 2101.

An introductory study of the preparation, analysis, interpretation and use of internal accounting information for planning, control and other business decisions with emphasis on product costing, cost analysis, cost volume profit analysis, budgeting, standard costing, performance measurement, relevant cost for non-routine decisions and analysis of financial statements.

#### **ACCT 3101 – Financial Accounting and Reporting I (3)**

Prerequisites: ACCT 2101; ACCT 2102.

A study of the theory and principles of financial statements. Review of basic principles and concepts related to the collection and summarization of accounting information and preparation of the income statement and balance sheet.

#### **ACCT 3102 – Financial Accounting and Reporting II (3)**

Prerequisite: ACCT 3101.

Study of theory and issues related to accounting and time value of money, measurement of property, plant and equipment, depreciation, intangible assets, current liabilities, and stockholders' equity.

#### **ACCT 3201 – Income Tax Accounting for Individuals (3)**

Prerequisites: ACCT 2101; ACCT 2102.

Study of the principles and concepts of federal income taxation of individuals and corporations.

#### **ACCT 4103 – Auditing (3)**

Prerequisites: ACCT 3101; BUSA 2000.

Study of the objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations by independent auditors.

#### **ACCT 4104 – Governmental and Not-for-Profit Accounting (3)**

Prerequisites: ACCT 2101; ACCT 2102.

A study of the principles of accounting and reporting for governmental, non-governmental, and not-for-profit organizations.

#### **ACCT 4105 – Advanced Accounting (3)**

Prerequisites: ACCT 3101; ACCT 3102.

Study of the theory and principles of accounting for business combinations, preparation of consolidated financial statements, accounting for partnerships, and accounting for international operations.

## **ANTHROPOLOGY (ANTH)**

### **ANTH 1102 – Introduction to Anthropology (3)**

Prerequisite: READ 0098

This course is a survey of general anthropology, the comparative study of human kind as a whole, including its four major subdisciplines: cultural anthropology, archaeology, linguistics, and physical anthropology. Through ethnographic descriptions, comparisons across time, and cross-cultural analysis, emphasis is placed on the great variety of cultural adaptations which various peoples have developed to survive and to meet human needs.

## **ART (ARTS)**

### **ARTS 1010 – Drawing I (3)**

Introduction to the techniques, materials and principles of drawing.

### **ARTS 1011 – Drawing II (3)**

Techniques, materials, and principles of drawing.

### **ARTS 1020 – Two Dimensional Design (3)**

The fundamentals of two dimensional design introduced through projects in a variety of media.

### **ARTS 1030 – Three Dimensional Design (3)**

An investigation of three dimensional forms and space using various materials and methods.

### **ARTS 1100 – Art Appreciation (3)**

Survey and critical appreciation of Art.

## **BIOLOGY (BIOL)**

### **BIOL 1101 – Biological Sciences I (3)**

Prerequisites: MATH 0099; READ 0098; ENGL 0099.

A study of basic biology for non-science majors. Topics include cell structure and function, bioenergetics, and genetics. Course and laboratory component are to be taken together.

### **BIOL 1101L – Biological Sciences I Laboratory (1)**

Prerequisites: MATH 0099; READ 0098; ENGL 0099.

Laboratory accompanying BIOL 1101.

### **BIOL 1102 – Biological Sciences II (3)**

Prerequisite: BIOL 1101/1101L.

A continuation of BIOL 1101 with a survey of human nutrition and disease. No accompanying laboratory course.

### **BIOL 1107 – Principles of Biology I (3)**

Prerequisites: MATH 0099; READ 0098; ENGL 0099; Co-requisite: CHEM 1211/1211L.

A study of biological chemistry, cell structure and function, bioenergetics, cell division, Mendelian genetics, modern genetics, and evolution. Course and laboratory component are to be taken together.

### **BIOL 1107L – Principles of Biology I Laboratory (1)**

Prerequisites: MATH 0099; READ 0098; ENGL 0099.

Laboratory accompanying BIOL 1107.

### **BIOL 1108 – Principles of Biology II (3)**

Prerequisite: BIOL 1107/1107L; Co-requisite: CHEM 1212/1212L.

A continuation of BIOL 1107 with a survey of living forms and an introduction to ecology. Course and laboratory component are to be taken together.

**BIOL 1108L – Principles of Biology II Laboratory (1)**

Laboratory accompanying BIOL 1108.

**BIOL 1607 – Principles of Cell Biology I (3)**

Prerequisites: MATH 0099; READ 0098; ENGL 0099; Co-requisite: CHEM 1211/1211L.

A study of biological chemistry, cell structure and function, bioenergetics, and protein synthesis. Course and laboratory component are to be taken together.

**BIOL 1607L – Principles of Cell Biology I Laboratory (1)**

Prerequisites: MATH 0099; READ 0098; ENGL 0099.

Laboratory accompanying BIOL 1607.

**BIOL 1608 – Principles of Cell Biology II (3)**

Prerequisites: BIOL 1607/1607L; Co-requisite: CHEM 1212/1212L.

A continuation of BIOL 1607 with a study of cell division, cell signaling, and cell organization. Course and laboratory component are to be taken together.

**BIOL 1608L – Principles of Cell Biology II Laboratory (1)**

Laboratory accompanying BIOL 1608.

**BIOL 2500 – Botany (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

A survey of the plant kingdom with emphasis on angiosperm structure and ecology.

**BIOL 2500L – Botany Laboratory (1)**

Laboratory accompanying BIOL 2500.

**BIOL 2550 – Zoology (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

A survey of invertebrate and vertebrate zoology with emphasis on anatomy and phylogeny.

**BIOL 2550L – Zoology Laboratory (1)**

Laboratory accompanying BIOL 2550.

**BIOL 3000 – Evolution (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

An introduction to biological evolution showing evidence of the theory of evolution from classical studies to recent discoveries in modern genetics. The implications of evolution to the foundation of modern biology and science as well as current implications affecting modern life.

**BIOL 3100 – Biochemistry (3)**

Prerequisites: BIOL 1108/1108L or BIOL 1608/1608L; CHEM 2212/2212L.

The structure and function of biological molecules, enzymology, metabolism and bioenergetics, and recombinant DNA technology. A laboratory-intensive course, introducing student to scientific experimental techniques, instrumentation, and methodology used in the study of cells and biological molecules.

**BIOL 3100L – Biochemistry Laboratory (1)**

Laboratory accompanying BIOL 3100. Students will be introduced to critical scientific experimental techniques, instrumentation, and methodology used in the study of biological molecules.

**BIOL 3101 – Human Anatomy, Physiology, and Histology (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

The first of a two-course sequence concerned with a study of the structure and functions of the human body. Topics include study of body organization, principles of support and movement, and body maintenance. Course and laboratory component are to be taken together.

**BIOL 3101L – Human Anatomy, Physiology, and Histology Laboratory (2)**

Laboratory accompanying BIOL 3101

**BIOL 3200 – Genetics (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

The course will be a study of inheritance beginning with Mendel's classic studies, an understanding of the importance of the chromosome, non-Mendelian inheritance, the structure and function of nucleic acids (DNA and RNA) and how proteins control cellular activities and organism's phenotypes.

**BIOL 3200L – Genetics Laboratory (1)**

Laboratory accompanying BIOL 3200. Laboratory periods will be used as tutorials for working on problem sets and some modern genetic and molecular experimental techniques.

**BIOL 3300 – Microbiology (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

A study of microorganisms, with special emphasis on the evolution, structure, function, and diversity of bacteria, viruses, fungi, protozoan, and Archaeans. The usefulness of bacteria and viruses as model biological systems will be included.

**BIOL 3300L – Microbiology Laboratory (1)**

Laboratory accompanying BIOL 3300. Laboratory studies will introduce students to fundamental microbiological techniques used in many laboratories.

**BIOL 3350 – Mycology (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

A study of fungi, emphasizing interrelationships with the plant and animal kingdoms. Topics include classification and naming, reproduction, fungi as pathogens of plants and animals, mycotoxins, and medicinal uses.

**BIOL 3350L – Mycology Laboratory (1)**

Laboratory accompanying BIOL 3350.

**BIOL 3400 – Cell Biology (3)**

Prerequisite: BIOL 1108/1108L.

A study of cell structure and function at the cellular, subcellular, and molecular levels. Studies will be of prokaryotic and eukaryotic cells.

**BIOL 3400L – Cell Biology Laboratory (1)**

Laboratory accompanying BIOL 3400.

**BIOL 3450 – Conservation Biology (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

A course dealing with topical issues that highlight the roles of ecology, economics, history, sociology, philosophy and politics in the conservation and management of wild living resources.

**BIOL 3500 – Ecology (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

A study of natural ecosystems, population structure and dynamics, organization and classification of communities, nutrient cycles and energy flows.

**BIOL 3500L – Ecology Laboratory (1)**

Laboratory accompanying BIOL 3500. Field studies will introduce the use of data collection devices and develop competent analysis of environmental status. One or two weekend field trips may be included.

**BIOL 3550 – Limnology (3)**

Prerequisite: BIOL 3500/3500L.

A study of structural and functional interrelationships of organisms of inland waters as they are affected by their dynamic physical, chemical and biotic environment.

**BIOL 3550L – Limnology Laboratory (1)**

Laboratory accompanying BIOL 3550. Predominantly field studies but some laboratory studies are included.

**BIOL 3650 – Terrestrial Ecology (3)**

Prerequisite: BIOL 3500/3500L.

A study of the structure and function of terrestrial systems. Concepts will cover population, community and ecosystem ecology of plants and animals within these systems with attention given to the processes and functions that are distinct within and common among these systems.

**BIOL 3650L – Terrestrial Ecology Laboratory (1)**

Laboratory accompanying BIOL 3650. Field studies will introduce the use of data collection devices and develop competent analysis of environmental status.

**BIOL 3900 – Biotechnology (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

Current topics and issues in Biotechnology will be studied. Specific biotechnologies will be studied including: cloning, DNA fingerprinting and molecular forensics, transgenic organisms, genetic engineering, medicinal biotechnology, and bioinformatics.

**BIOL 4150 – Neurobiology (3)**

Prerequisite: BIOL 3101/3101L.

A study of the biology of the nervous system and its relationship to behavior and disease. The course covers topics ranging from neuronal structure and function, communication at the synapse, membrane receptors and intra- and intercellular signaling systems, the processing of sensory information, the programming of motor responses, and higher functions such as learning, memory, cognition, and speech.

**BIOL 4200 – Bioinformatics (3)**

Prerequisites: BIOL 3400/3400L or BIOL 1608/1608L; BIOL 3900.

A hybrid course studying the fundamental theories and practices of Bioinformatics. Classes will focus on the basic knowledge required in this field, including the theory and design of databases, access to genome information, sources of data, and tools for data mining. Emphasis will be placed on how to use the databases and tools.

**BIOL 4250 – Human Genetics (3)**

Prerequisite: BIOL 3200/3200L.

Introduces fundamental concepts and technological advances in the study of human genetics. Each of the major subspecialties will be addressed: cytogenetics, molecular genetics, biochemical genetics, clinical genetics, genetic counseling, and reproductive and perinatal genetics.

**BIOL 4270 – Virology (3)**

Prerequisite: BIOL 3400/3400L or BIOL 1608/1608L.

A general virology course including virus structure and replication cycles. The major families of the bacterial, plant, and animal viruses are reviewed. Human viruses and infectious diseases are emphasized.

**BIOL 4300 – Biotechnology Laboratory (2)**

Prerequisite: BIOL 3400/3400L or BIOL 1608/1608L; BIOL 3900; BIOL 3300/3300L.

A stand-alone laboratory course that concentrates on the fundamental laboratory techniques used in biotechnology.

**BIOL 4310 – Developmental Biology (3)**

Prerequisite: BIOL 3200/3200L or BIOL 3101/3101L.

Basic aspects of morphogenesis including cell movements and cell interactions in determination, differentiation, and pattern formation are discussed with examples from vertebrates, invertebrates and plants. The impact of recent discoveries in the field of molecular biology, such as the role of homeotic and segmentation genes in development and segmentation of organisms are discussed.

**BIOL 4310L – Developmental Biology Laboratory (1)**

Laboratory accompanying BIOL 4310.



**BIOL 4400 – Medical Entomology (3)**

Prerequisite: BIOL 1108/1108L or BIOL 1608/1608L.

A problem-solving course dealing with pest and vector biology and control of arthropods of medical importance.

**BIOL 4400L – Medical Entomology Laboratory (1)**

Laboratory accompanying BIOL 4400.

**BIOL 4410 – Industrial Microbiology (3)**

Prerequisite: BIOL 3300/3300L.

This course covers the principles of various processes associated with the production and recovery of different bioproducts derived from prokaryotes and eukaryotes. Topics include fermentation principles, mammalian and bacterial cell propagation, product recovery, and protein purification. Emphasis is on large-scale production methods and production of recombinant proteins for diagnostic and clinical applications.

**BIOL 4410L – Industrial Microbiology Laboratory (1)**

Laboratory accompanying BIOL 4410.

**BIOL 4450 – Enzymology (3)**

Prerequisite: BIOL 3100/3100L.

A course covering the structure and function of enzymes and enzyme kinetics.

**BIOL 4450L – Enzymology Laboratory (3)**

Laboratory accompanying BIOL 4450. Each student will isolate, purify and study the kinetics of a particular enzyme reaction.

**BIOL 4500 – Undergraduate Research project (3)**

Prerequisite: Permission of faculty member who is to direct the research.

A directed research project to be supervised by a faculty member. A research project will allow students to undertake a project of some area not available as a regular course and to gain skills in experimental studies. The project must increase knowledge of the topic, involve analytical studies, and increase laboratory skills. A written and/or oral presentation will be required for evaluation of the project.

**BIOL 4540 – Immunology (3)**

Prerequisite: BIOL 3101/3101L.

Basic concepts in immunology including development of the immune system, innate immunity, immunoglobulin structure, antigen-antibody reactions, and cell-mediated immunity, autoimmune diseases, allergies, immune deficiencies and AIDS.

**BIOL 4550 – Pharmacology (3)**

Prerequisites: BIOL 3101/3101L; BIOL 3100/3100L.

Principles governing drug-receptor interactions, dose-response relationships, desensitization, and tolerance, drug toxicity, pharmacogenomics and DNA/RNA therapies.

**BIOL 4700 – Interdisciplinary Applications of Biology (3)**

Prerequisite: Completion of at least 28 hours of biology courses

Capstone problem solving course for biology majors.

**BIOL 4750 – Environmental Toxicology (3)**

Prerequisite: BIOL 3100/3100L or BIOL 3500/3500L.

Explores the foundations of how environmental pollutants affect biological health. Topics include source and exposure routes of pollutants, basics of quantitative toxicology, the effects of exposure, and environmental regulations as they relate to toxicology.

### **BIOL 4800 – Internship (3)**

Prerequisite: Completion of at least 28 hours of biology courses.

Internships are supervised experiential experience in applied biology. The experience may include some form of scientific investigation, environmental impact assessment, environmental educational program, biotechnology law or informatics. A faculty member will serve as academic coordinator. A final report must be submitted by the last week of the term. The faculty advisor will determine student's grade after consultation with the work supervisor.

## **BUSINESS ADMINISTRATION (BUSA)**

### **BUSA 2000 -- Statistical Analysis for Business (3)**

Prerequisites: MATH 0099; READ 0098.

An introduction to basic descriptive and inferential statistics. Includes measures of central tendency and variability, organizing and graphing data, probability, normal distribution, sampling, confidence intervals, hypothesis tests, significance tests, correlation and regression.

### **BUSA 2105 – Communications in the Business Environment (3)**

Prerequisites: ENGL 1101; ENGL 1102.

Emphasis on interpersonal and organizational communication; includes written exercises and oral presentations appropriate to business practice.

### **BUSA 2106 – The Environment of Business (3)**

Prerequisites: POLS 1101; MATH 1111.

An introduction to the legal, regulatory, political, social, ethical, cultural, environmental, and technological issues which form the context of business; includes an overview of the impact of demographic diversity on organizations.

### **BUSA 3000 – Applied Business Statistics (3)**

Prerequisites: ITEC 1001; BUSA 2000.

Examines theory and application of statistical methods used in business decision-making and forecasting.

### **BUSA 3100 – Management Information Systems (3)**

Prerequisites: ITEC 1001; MGMT 3000.

A basic introduction of Information Systems and Technology in order to determine requirements, make necessary decisions, execute strategy and evaluate results. Emphasis on aligning information strategies with business strategies and using information technologies for business processes.

### **BUSA 3200 -- Global Business (3)**

Prerequisites: BUSA 2105; BUSA 2106; ECON 2105; ECON 2106.

An introduction to the various dimensions of the international business environment. The cultural, social, legal, political, and economic institutions which influence, and are influenced by, international firms are examined.

### **BUSA 3500 -- Legal Environment of Business (3)**

Prerequisite: BUSA 2106.

An introduction to law and the legal system. Topics discussed include the court system, constitutional law, administrative law, contract law, torts, product liability, agency and an introduction to governmental regulation of business.

### **BUSA 3600. Telecommunications/Network Design and Integration (3)**

Prerequisites: ITEC 1001; BUSA 3100.

This course will provide an understanding of the elements of network and telecommunication systems design and the integration of these elements into a unified system. The course will examine system parameters, wireless capabilities, security aspects and benefit/cost analyses (including future expandability and system life) of the design, maintenance, and operation of integrated systems.

**BUSA 3900 – Directed Research and Reading (3)**

Prerequisite: Junior or senior standing and consent of Instructor.

A research-oriented course focusing on an important topic in business not otherwise covered in the School's offerings. The course features student research, independent study and discussions.

**BUSA 4500 – Studies Abroad (3 or 6)**

Cross-listed with MKTG 4500.

Prerequisites: Consent of Instructor

Analysis of the role and impact of cultural, economic, social, political, and legal factors on business through travel to a foreign country or countries. Includes lectures, discussions, facilities tours. Direct costs such as airfare, hotels, etc., are added to normal tuition charges.

**BUSA 4700 – Selected Topics in Business (3)**

Prerequisite: Consent of Instructor.

Study of current topics in Business and/or related disciplines. May be repeated for credit when topic varies.

**BUSA 4751 – Business Internship/Experiential Learning (3)**

Cross-listed with MKTG 4751.

Prerequisite: Approval of Advisor.

Individually designed learning opportunity in which the student is involved in the normal operations of an organization in the private or public sector.

**CHEMISTRY (CHEM)**

**CHEM 1211 – Principles of Chemistry I (3)**

Prerequisites: MATH 0099; READ 0098; ENGL 0099.

First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics to be covered include composition of matter, stoichiometry, periodic relations, and nomenclature.

**CHEM 1211L – Principles of Chemistry I Laboratory (1)**

Laboratory exercises supplement the class material of CHEM 1211.

**CHEM 1212 – Principles of Chemistry II (3)**

Prerequisite: CHEM 1211/1211L.

Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors.

**CHEM 1212L – Principles of Chemistry II Laboratory (1)**

Laboratory exercises supplement the class material of CHEM 1212.

**CHEM 2211 – Organic Chemistry I (3)**

Prerequisite: 1212/1212L.

An introduction to the relationship between chemical structure and the physical and chemical properties of organic molecules. The concept of mechanism of reaction is explored.

**CHEM 2211L – Organic Chemistry I Laboratory (1)**

Laboratory exercises supplement the class material of CHEM 2211.

**CHEM 2212 – Organic Chemistry II (3)**

Prerequisite: CHEM 2211/2211L.

This course builds on CHEM 2211 and explores the reactions of major functional groups.

**CHEM 2212L – Organic Chemistry II Laboratory (1)**

Laboratory exercises supplement the class material of CHEM 2212.

**CHEM 3000 – Analytical Chemistry (3)**

Prerequisite: CHEM 1212.

Teaches the fundamental concepts of analytical chemistry including acid-base equilibria, redox potentials, compleximetric titrimetry, separations, electrochemistry, and absorption spectroscopy. The course provides an overview of modern analytical techniques being used in various fields

**CHEM 3000L – Analytical Chemistry Laboratory**

Laboratory exercises supplement the class material of CHEM 3000.

**CHEM 4100 – Instrumental Chemistry (2)**

Prerequisite: CHEM 3000/3000L.

Designed to develop proficiency in the selection and use of modern instrumental methods to solve real chemical problems. Methods introduced are various spectroscopic techniques, gas chromatography and electrochemical techniques.

**CHEM 4100L – Instrumental Chemistry Laboratory (2)**

Laboratory exercises supplement the class material of CHEM 4100.

**CHINESE (CHIN)**

**CHIN 1001 – Elementary Chinese I (3)**

Introduction to listening, speaking, reading, and writing in Chinese and to the culture of Chinese speaking regions.

**CHIN 1002 – Elementary Chinese II (3)**

Prerequisite: CHIN 1001.

Continued listening, speaking, reading and writing in Chinese with further study of the culture of Chinese-speaking regions.

**CHIN 2001 – Intermediate Chinese I (3)**

Prerequisite: CHIN 1002.

Course continues performance based training in higher levels of Chinese grammar, pronunciation, composition, and conversation. Students acquire greater proficiency speaking, listening, reading, and writing in Chinese.

**CHIN 2002 – Intermediate Chinese II (3)**

Prerequisite: CHIN 2001.

Continued teaching on how to express more sophisticated and complex ideas, including opinions, intentions, and desires; to comprehend the language in conversational and editorial contexts; and to read authentic texts and respond to the orally and in writing.

**COMMUNICATIONS (COMM)**

**COMM 1100 – Human Communications (3)**

Prerequisite: READ 0098.

A broad approach to oral communications skills including intrapersonal, interpersonal, small group, and public speaking.

**COMM 1110 – Public Speaking (3)**

Prerequisite: READ 0098.

The organization of materials and the vocal and physical aspects of delivery in various speaking situations.

## **ECONOMICS (ECON)**

### **ECON 2105 – Principles of Macroeconomics (3)**

Prerequisite: MATH 1111.

The study and analysis of national income accounting, income determination theory, monetary policy, fiscal policy, international trade, and the theory of economic growth. Attention will be given to current economic conditions and trends.

### **ECON 2106 –Principles of Microeconomics (3)**

Prerequisite: MATH 1111.

Introduction to the basic tools of economic analysis, business behavior, consumer behavior, supply and demand, marginal analysis, and the theory of the firm.

### **ECON 3101 – Money, Banking, and Financial Institutions (3)**

(Cross-listed with FINA 3101).

Prerequisites: ECON 2105; ECON 2106; FINA 3000.

Study of monetary, banking, and credit structures, and examination of monetary theory and policy recommendations.

### **ECON 3102 – Intermediate Microeconomics (3)**

Prerequisites: ECON 2105; ECON 2106.

An in-depth study of price theory relevant to households, firms, and industries in both perfect and imperfect competition. Theories of factor prices and general equilibrium are also examined.

### **ECON 3103 – Intermediate Macroeconomics (3)**

Prerequisites: ECON 2105; ECON 2106.

An in-depth study of macroeconomic theories and public policies. Topics include income determination, employment, inflation, economic fluctuations, fiscal and monetary policies, and economic growth and development.

### **ECON 4101 – International Economics and Finance (3)**

(Cross-listed with FINA 4101).

Prerequisites: ECON 2105; ECON 2106; FINA 3000.

An introduction to foreign trade theory and commercial policies. Topics may include the theory of international trade, commercial policies, balance of payments and domestic stability, offer curves and the terms of trade, and international trade strategy.

### **ECON 4102 – Labor Economics (3)**

Prerequisites: ECON 2105; ECON 2106; BUSA 2000.

Study of major labor problems of the United States and the social and economics policies affecting the labor movement; labor organizational and trade unionism.

### **ECON 4700 – Selected Topics in Economics (3)**

Prerequisites: ECON 2105; ECON 2106, or Permission of Instructor.

Study of current topics in Economics. May be repeated for credit when topic varies.

## **ENGLISH (ENGL)**

### **ENGL 0098 – Student Success Basic Composition (4\*)**

An introductory study of the essay, focusing on idea generation, paragraph development, and effective sentence structure. \*Institutional load credit only.

### **ENGL 0099 – Student Success Pre-College Composition (4\*)**

Prerequisite: ENGL 0098.

A course in the writing of essays, focusing on expanding the paragraph into an essay, ordering ideas, and using transitional devices. Grammar and usage within the composition is emphasized. \*Institutional load credit only.

**ENGL 1101 – English Composition I (3)**

Prerequisite: ENGL 0099.

A composition course focusing on skills required for effective writing in a variety of contexts, with emphasis on exposition, analysis, and argumentation, and also including introductory use of a variety of research skills.

**ENGL 1102 – English Composition II (3)**

Prerequisite: ENGL 1101.

A composition course that develops writing skills beyond the levels of proficiency required by ENGL 1101, that emphasizes interpretation and evaluation, and that incorporates a variety of more advanced research methods.

**ENGL 2100 - Transatlantic English Literature.**

Prerequisite: ENGL 1102.

A survey of literature of the Americas and British Isles

**ENGL 2110 – World Literature (3)**

Prerequisite: ENGL 1102.

A survey of important works of world literature.

**ENGL 2111 – World Literature I (3)**

Prerequisite: ENGL 1102.

A survey of important works of world literature from ancient times through the mid-seventeenth century.

**ENGL 2112 – World Literature II (3)**

Prerequisite: ENGL 1102.

A survey of important works of world literature from the mid-seventeenth century to the present.

**ENGL 2120 – British Literature (3)**

Prerequisite: ENGL 1102.

A survey of important works of British literature.

**ENGL 2121 – British Literature I (3)**

Prerequisite: ENGL 1102.

A survey of important works of British literature from the Old English period through the neoclassical age.

**ENGL 2122 – British Literature II (3)**

Prerequisite: ENGL 1102.

A survey of important works of British literature from the Romantic era to the present.

**ENGL 2130 – American Literature (3)**

Prerequisite: ENGL 1102.

A survey of important works of American literature.

**ENGL 2131 – American Literature I (3)**

Prerequisite: ENGL 1102.

A survey of American literature from the pre-colonial age to the mid-nineteenth century.

**ENGL 2132 – American Literature II (3)**

Prerequisite: ENGL 1102.

A survey of American literature from the mid-nineteenth century to the present.

**ENGLISH AS A SECOND LANGUAGE (ESL)**

**ESL 0080 – ESL for Success Integrated Skills I (4\*)**

Students use pre-college level materials to develop academic communications skills with an emphasis on integrating reading and writing. Students will demonstrate understanding of and responding critically to material in writing compositions and reports. \*Institutional load credit only.

**ESL 0081 – ESL for Success Applied Grammar I (3\*)**

Students develop grammar skills in the context of writing compositions and analyzing reading passages. Punctuation, usage, and linguistic concerns of non-native speakers of English are addressed. \*Institutional load credit only.

**ESL 0082 – ESL for Success Academic Listening/Speaking Skills I (3\*)**

Speaking and listening skills are developed at the high intermediate level. Focus is on listening comprehension, note-taking, pronunciation and oral presentation skills. \*Institutional load credit only.

**ESL 0090 – ESL for Success Integrated Skills II (6\*)**

Students use college-level materials to develop reading, writing, speaking, and listening skills necessary for success in academic work. Students will demonstrate understanding of and responding critically to college level material in speech and writing which will include reports, essays, and a short documented paper. Exit test required.

\*Institutional load credit only.

**ESL 0091 – ESL for Success Applied Grammar II (3\*)**

Students review and refine organizational and editing skills, improve usage and grammar application while writing essays and reports. Students may only register for Applied Grammar II based on faculty recommendation.

\*Institutional load credit only.

**ESL 0092 – ESL for Academic Communication Skills II (3\*)**

Prerequisite: ESL 0082.

Oral communication skills are developed at the advanced level. Focus is on accent reduction, listening comprehension, appropriate language usage in various registers and oral presentations using classroom technology. Placement in the course is contingent upon COMPASS Listening score or successful completion of ESL for Success Academic Communication Skills I.

\*Institutional load credit only

**ESL 0095 – ESL Writing/Grammar Workshop I (2\*)**

A workshop to be taken concurrently with English Composition I. The focus is on building grammar editing strategies, over viewing the kinds of language trouble spots that English causes, and examining the kinds of errors marked by the English composition teacher in the editing drafts from the writing course.

\*Institutional load credit only.

**ESL 0096 – ESL Writing/Grammar Workshop II (2\*)**

A workshop to be taken concurrently with English Composition II. The focus is on developing and refining editing strategies and becoming more familiar with the intricacies of grammar rules and usage and development of students academic voice all within the context of student's own writing.

**FILM (FILM)**

**FILM 1005 – Introduction to Film (3)**

Introduces students to the serious study of cinema, focusing on various categories of film, including classical Hollywood films, international art films, the documentary, and experimental film. Examines the stylistic and rhetorical dimensions of film language, including such aspects as narrative structure, cinematography, staging, editing, and sound.

**FINANCE (FINA)**

**FINA 3000 – Principles of Finance (3)**

Prerequisites: ECON 2106; ACCT 2101; BUSA 2000.

Introduces students to financial management. Topics include the structure and analysis of financial statements, cash flow, financial forecasting, determination of the costs of capital and the profitability of proposed investment in fixed assets, risk-return tradeoffs; cost of capital and dividend policy.

### **FINA 3101 – Money, Banking and Financial Institutions (3)**

(Cross-listed with ECON 3101).

Prerequisites: ECON 2105; ECON 2106; BUSA 2000.

An in-depth study of monetary theory and policy recommendations, banking institutions and other financial and credit structures.

### **FINA 3102 – Intermediate Finance (3)**

Prerequisite: FINA 3000.

A continuation of FINA 3000. An in-depth study of long-term financing and capital structure decisions and short-term financial planning and working capital management. Topics include capital structure and dividend payout policies, cost of capital and capital budgeting, and working capital management. The course serves as a framework for understanding a broad range of corporate financial decisions.

### **FINA 4101 – International Economics and Finance (3)**

(Cross-listed with ECON 4101).

Prerequisite: FINA 3000; ECON 2105; ECON 2106.

An introduction to foreign trade theory and commercial policies. Topics may include the theory of international trade, commercial policies, balance of payments and domestic stability, offer curves and the terms of trade, and international trade strategy.

### **FINA 4103 – Investment Analysis (3)**

Prerequisite: FINA 3000.

A study of the investment process and various financial investment alternatives available to investors with concentration on the formulation of a sound investment program for both individuals and institutions. Topics include stock and bond analysis, securities markets, futures contracts, option contracts, efficient market hypothesis, fundamental analysis, and technical analysis.

### **FINA 4104 – Futures and Options (3)**

Prerequisite: FINA 3000.

An in-depth study of futures and options markets. Topics include the institutional structure of options and futures markets, pricing models, financial swaps, and hedging techniques.

## **FRENCH (FREN)**

### **FREN 1001 – Elementary French I (3)**

Introduction to listening, speaking, reading, and writing in French and to the culture of French-speaking regions.

### **FREN 1002 – Elementary French II (3)**

Prerequisite: FREN 1001.

Continued listening, speaking, reading and writing in French with further study of the culture of French-speaking regions.

### **FREN 2001 – Intermediate French I (3)**

Prerequisite: FREN 1002.

A continuation of development in listening, speaking, reading and writing skills in French with further study of the culture of francophone regions and an introduction to French-language literature.

### **FREN 2002 – Intermediate French II (3)**

Prerequisite: FREN 2001.

A review and expansion of French grammar with intensive practice in conversation and writing. Culture and history will be examined through French-language literature, news reporting, and film.



## **GEOGRAPHY (GEOG)**

### **GEOG 1101 – Introduction to Human Geography (3)**

Prerequisite: READ 0098.

A survey of global patterns of resources, population, culture, and economic systems. Emphasis is placed upon the factors contributing to these patterns and the distinctions between the technologically advanced and less advanced regions of the world.

### **GEOG 1103 – Geographic Perspectives on Multiculturalism in the United States (3)**

Prerequisite: READ 0098.

Geographic factors underlying multiculturalism and ethnic relationships in the United States. Three interrelated themes are emphasized: the spatial development and organization of culture; population growth, migration, and urbanization; and the spatial dimensions of political, economic, and social processes.

### **GEOG 1111 – Introduction to Physical Geography (3)**

Prerequisite: READ 0098.

An introduction to physical geography, surveying climate, vegetation, soils, landforms, and water resources in their areal interrelations and distributions.

### **GEOG 1112 – Introduction to Weather and Climate (3)**

Prerequisite: READ 0098.

Components of weather processes, and their measurement. Climatic elements and their control factors. Geographic classification of climatic and vegetative types on the Earth's surface.

### **GEOG 1112L – Introduction to Weather and Climate Laboratory (1)**

Prerequisite: READ 0098.

Laboratory exercises supplement the lecture material of GEOG 1112.

### **GEOG 1113 – Introduction to Landforms (3)**

Prerequisite: READ 0098.

Introductory analysis and classification of major types of land surfaces, stressing geographic characteristics. Study and interpretation of relationships between landforms and other phenomena through maps, air photos, and field observations. World coverage with stress on North America.

### **GEOG 1113L – Introduction to Landforms Laboratory (1)**

Prerequisite: READ 0098.

Laboratory exercises supplement the lecture material of GEOG 1113.

### **GEOG 1125 – Resources, Society and the Environment (3)**

Prerequisite: READ 0098.

Interactions between physical systems and human activities, and their effects on environmental quality and sustainability are emphasized. Topics include: geography of population and resource consumption, food production, water and air quality, energy policy, land/biotic resource management. Contrasting social, ethical, and technological perspectives on environmental concerns are explored.

## **GEORGIA GWINNETT COLLEGE (GGC)**

### **GGC 1000 – First Year of College Seminar (1)**

A course designed to increase students' success in college by assisting the students in obtaining knowledge and practical skills necessary to reach their educational objective and beyond. Topics include expectations of college, time utilization, test-taking and communication skills, study techniques, listening and note-taking skills, library use, use of College resources and personal issues that many college students face. This course is mandatory for all first year college students (students with fewer than 30 transferable hours at the time of enrollment).

## **HISTORY (HIST)**

### **HIST 1111 – Survey of World History/Civilization I (3)**

Prerequisite: READ 0098.

A survey of World History to early modern times.

### **HIST 1112 – Survey of World History/Civilization II (3)**

Prerequisite: READ 0098.

A survey of World History from early modern times to the present.

### **HIST 1121 – Survey of Western Civilization I (3)**

Prerequisite: READ 0098.

A survey of Western Civilization to early modern times.

### **HIST 1122 – Survey of Western Civilization II (3)**

Prerequisite: READ 0098.

A survey of Western Civilization from early modern times to the present.

### **HIST 2111 – Survey of United States History I (3)**

Prerequisite: READ 0098.

A survey of United States History to the post-Civil War period.

### **HIST 2112 – Survey of United States History II (3)**

Prerequisite: READ 0098.

A survey of United States History from the post-Civil War period to the present.

## **INFORMATION TECHNOLOGY (ITEC)**

### **ITEC 1001 – Introduction to Computing (4)**

Prerequisite: READ 0098; MATH 0099.

Introduction to computers, programming, and applications software. Areas of study include: hardware; problem solving; programming; and application packages such as word processing, spread sheets, and data base systems

### **ITEC 1201 – Introduction to Information Systems (3)**

Prerequisite: ITEC 1001; ENGL 0099.

Fundamentals of information systems, including what they are and how they affect organizations. Technical and organizational foundations of information systems, building information systems, managing information system resources.

### **ITEC 2110 – Digital Media (4)**

Prerequisite: ITEC 1001; ENGL 0099.

A course that takes students through the development of all forms of digital media with emphasis on web development. Students build digital media incorporating planning, layout, design and testing skills. Students also learn how to use commercial programs to create, edit, and optimize images for the World Wide Web.

### **ITEC 2120 – Introduction to Programming (4)**

Prerequisite: ITEC 1001; ENGL 0099.

Introduction to concepts, principles, and skills of programming, including compilers, algorithms, and problem solving. An introduction to multiple programming languages.

### **ITEC 2150 – Intermediate Programming (4)**

Prerequisite: ITEC 2120.

More advanced programming concepts, principles, and skills.

### **ITEC 3100 – Introduction to Networks (3)**

Prerequisite: ITEC 1201.

A top-down exploration of networking including: data communications, network architectures, communication protocols, data link control, medium access control; introduction to local area networks and wide area networks; introduction to Internet and TCP/IP.

### **ITEC 3150 – Object Oriented Programming (3)**

Prerequisite: ITEC 2150.

A conceptual and practical introduction to object oriented programming. After completing the course successfully students will be able to develop programs that support experimentation, simulation, and exploration and the capacity to implement, test and observe a particular algorithm.

### **ITEC 3200 – Introduction to Databases (3)**

Prerequisite: ITEC 1201.

Introduction to fundamental concepts of database management including: schema design and refinement, query languages, transaction management, security, database application environments, physical data organization, overview of query processing, physical design tuning.

### **ITEC 3300 – Information Security (3)**

Prerequisite: ITEC 1201.

A survey course intended to introduce the student to the basics of information security. Students are taught to allocate scarce security resources effectively. Threats, vulnerabilities, and risk management concepts are discussed.

### **ITEC 3350 – E Commerce (3)**

Prerequisite: ITEC 1001; ENGL 0099.

This course covers basic business practices using electronic commerce including internet development, security, network connectivity and privacy, electronic publishing, electronic shopping, electronic distribution, electronic collaboration and database issues.

### **ITEC 3450 – Computer Graphics and Multimedia (3)**

Prerequisite: ITEC 2110.

This course introduces the many facets of interactive multimedia design and production. Students are introduced to interaction-based authoring programs used for information delivery with special attention focused on the integration of various media assets for communication. Students also concentrate on the storage, management, and retrieval of media assets in a production environment.

### **ITEC 3550 – User Centered Design (3)**

Prerequisite: ITEC 2110; ITEC 2120; ITEC 1201.

This course develops an understanding of the user-centered design process by discussing a variety of user interfaces including websites, graphical user interfaces and embedded systems. Industrial applications illustrating how UI design issues have been addressed within different organizations will be discussed. Practical exercises using different media are also included.

### **ITEC 3600 – Operating Systems (3)**

Prerequisite: ITEC 1201.

This course examines operating system design concepts, data structures and algorithms, and systems programming basics. The topics to be covered may include computer and operating system structures, process and thread management, process synchronization and communication, memory management, file system, and I/O subsystem and device management.

### **ITEC 3700 – Systems Analysis and Design (3)**

Prerequisite: ITEC 2110; ITEC 2120; ITEC 1201.

Students become familiar with various concepts, principles, and stages of computer-based information systems analysis and design. Students learn about different methods, tools, and techniques used in systems analysis and design including: feasibility studies, requirements definition, design and development documentation, system development life cycle, prototyping, data modeling, and user involvement.

**ITEC 3860 – Software Development I (4)**

Prerequisite: ITEC 2110; ITEC 2120; ITEC 1201.

First course in a sequence that teaches students to use the software development life cycle including problem definition, systems analysis, requirements gathering, designing systems, development of systems, testing and implementation.

**ITEC 3870 – Software Development II (4)**

Prerequisite: ITEC 3860.

Second course in a sequence that teaches students to use the software development life cycle including problem definition, systems analysis, requirements gathering, designing systems, development of systems, testing and implementation.

**ITEC 3900 – Professional Practice and Ethics (3)**

Prerequisite: ITEC 1001; ENGL 0099.

Familiarizes students with professional practice in the information technology profession. Students will identify ethical conflicts, identify their responsibilities and options, and think through the implications of possible solutions to ethical conflicts.

**ITEC 4100 – Advanced Networks (3)**

Prerequisite: ITEC 3110.

More advanced networking concepts, principles, and skills.

**ITEC 4110 – Advanced Digital Media (4)**

Prerequisite: ITEC 2110.

More advanced digital media concepts, principles, and skills.

**ITEC 4130 – Human Computer Interaction (3)**

Prerequisite: ITEC 2110; ITEC 2120; ITEC 1201.

Introduction to human-computer interaction and the design of systems that work for people and their organizations. The goal is to understand the manner in which humans interact with, and use, their computers for productive work.

**ITEC 4200 – Advanced Databases (4)**

Prerequisite: ITEC 3200.

More advanced database concepts, principles, and skills.

**ITEC 4250 – Embedded Systems (3)**

Prerequisite: ITEC 3870.

System building course to provide students with a complete experience in embedded system design including a focus on case studies and emerging components and platforms. Students will design, simulate, construct, debug, and document a substantial project.

**ITEC 4260 – Software Testing and QA (3)**

Prerequisite: ITEC 3870.

Concepts and techniques for testing software and assuring its quality. Topics cover software testing at the unit, module, subsystem, and system levels; automatic and manual techniques for generating and validating test data; the testing process; static vs. dynamic analysis; functional testing; inspections; and reliability assessment.

**ITEC 4310 – Operating Systems Security (3)**

Prerequisite: ITEC 3300.

This course teaches security principles for Unix and Windows NT systems, implementing account security, implementing file system security, assessing security risks, and reducing risks.

**IITEC 4320 – Internet Security (3)**

Prerequisite: IITEC 3300.

Topics in cryptography and network security, with an emphasis of applications of mathematical cryptography in electronic commerce including conventional and public-key cryptography, digital signatures, cryptographic protocols, and key escrow systems.

**IITEC 4650 – Computer Game Software Development (3)**

Prerequisite: IITEC 3870.

Fundamental programming concepts and techniques prevalent in current state-of-the-art video games.

**IITEC 4810 – Information Technology Project I (3)**

Prerequisite: Completion of at least 28 hours of IT courses.

Capstone project course for Information Technology majors.

**IITEC 4820 – Information Technology Project II (3)**

Prerequisite: IITEC 4810.

Capstone project course for Information Technology majors.

**IITEC 4860 – Software Development Project (3)**

Prerequisite: IITEC 3870 and completion of at least 28 hours of IT courses

Capstone project course for Information Technology majors.

**IITEC 4900 – Information Technology Internship (3)**

Prerequisite: Completion of at least 28 hours of IT courses. Internships are supervised experiential experience in applied IT. A faculty member will serve as academic coordinator. A final report must be submitted by the last week of the term. The faculty advisor will determine student's grade after consultation with the work supervisor.

**MATHEMATICS (MATH)**

**MATH 0097 – Student Success Beginning Algebra (4\*)**

A course designed to help students learn the basic algebra necessary for college level mathematics. Topics include real-number concepts, selected geometry concepts, linear equations and inequalities in one variable, problem solving linear or factorable quadratic equations as models, operations on polynomials, factoring polynomials, integral exponents, and graphing linear equations in two variables. Additional topics include the study of rational expressions and the use of the scientific calculator. \*Institutional load credit only.

**MATH 0098 – Student Success Intermediate Algebra (4\*)**

Prerequisites: MATH 0097.

A course designed to prepare students for college level mathematics. Topics include graphing lines and parabolas, function notation, integral and rational exponents, solving absolute value and quadratic equations and inequalities, problem solving involving linear equations, quadratic equations, and systems of equations in two variables, and writing equations of line. Additional topics include operations with radicals and complex numbers, geometric concepts, and calculator usage. \*Institutional load credit only.

**MATH 0099 – Student Success Pre-College Algebra (4\*)**

Prerequisite: MATH 0098.

A course designed to be a bridge between Student Success mathematics and college-level mathematics. It is divided into two components. Component 1 is individualized, self-paced instruction on selected topics as determined by results from a diagnostic test covering topics from MATH 0097 and MATH 0098. Component 2 introduces new topics including graphing calculator usage, concepts of functions and their graphs; equations and graphs of circles and parabolas; solving systems of equations in two variables; rational, polynomial, and absolute value inequalities. \*Institutional load credit only.

### **MATH 1111 – College Algebra (3)**

Prerequisites: MATH 0099; READ 0098.

This course is a functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions and their graphs, inequalities, and linear, quadratic, piece-wise defined, rational, polynomial, exponential, and logarithmic functions. Appropriate applications will be included.

### **MATH 1113 – Precalculus (4)**

Prerequisites: MATH 1111; ENGL 0099.

This course is designed to prepare students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic and transcendental functions accompanied by analytic geometry.

### **MATH 2000 – Statistics (3)**

Prerequisites: MATH 0099; READ 0098.

A noncalculus introduction to descriptive and inferential hypothesis testing, linear regression and correlation, the normal distribution and estimation.

### **MATH 2100 – Probability and Statistics (3)**

Prerequisites: MATH 1111, READ 0098.

Probability, including discrete distributions using combinatorial methods. A noncalculus introduction to descriptive and inferential hypothesis testing, linear regression and correlation, the normal distribution and estimation.

### **MATH 2200 – Calculus I (4)**

Prerequisite: MATH 1113.

An introduction to differential calculus. Topics include limits, differentiation of algebraic and trigonometric functions, applications of derivatives, introduction to plane parametric curves, antidifferentiation, simple differential equations, the area under a curve, the fundamental theorem of calculus, and differential and integration of exponential and logarithmic functions.

### **MATH 2210 – Calculus II (4)**

Prerequisite: MATH 2200.

A continuation of Calculus I. Topics include application of definite integrals; derivatives and integrals with inverse trigonometric functions; indeterminate forms and l'Hopital's rule; techniques of integration; polar coordinates; infinite sequences and series.

### **MATH 2400 – Calculus for Scientists (4)**

Prerequisite: MATH 1113.

An introduction to differential calculus. Topics include limits, differentiation of algebraic and trigonometric functions, applications of derivatives, introduction to plane parametric curves, antidifferentiation, simple differential equations, the area under a curve, the fundamental theorem of calculus, and differential and integration of exponential and logarithmic functions. Applications will be drawn mainly from the life sciences.

### **MATH 2300 – Discrete Math (3)**

Prerequisite: MATH 1111.

The study of objects and ideas that can be divided into separate or discontinuous parts. Topics include: problem solving, reasoning, communication, decision making, graph theory, combinatorics, discrete probability, recursion, matrices, sets, logic, functions and relations, real number system and algebraic structures.

## **MANAGEMENT (MGMT)**

### **MGMT 3000 – Principles of Management (3)**

Prerequisites: BUSA 2105; BUSA 2106.

An introduction to the management process, emphasizing planning and strategy, organizational theory and structure, organizational behavior, ethical leadership, motivation, communication, and team building.

**MGMT 3040 -- Human Resource Management (3)**

Prerequisite: MGMT 3000.

A study of modern personnel functions. Topics include: recruitment, selection, training; performance appraisal; employee benefits; collective bargaining.

**MGMT 3250 – Management of Non-Profit Organizations (3)**

Prerequisite: MGMT 3000.

This course introduces the student to the differences between for-profit and not-for-profit organizations. Emphasis is placed on understanding the roles of leaders, managers, board members, and volunteers in non-profit organizations. The organizational structures and processes that are specific to non-profit organizations will be analyzed.

**MGMT 3350 – Leadership in 21<sup>st</sup> Century Organizations (3)**

Prerequisites: MGMT 3000; MGMT 4100 recommended.

This course examines the traits, skills, and behaviors of effective leaders. The role of leaders in sustaining profitability, productivity and excellent customer service in 21<sup>st</sup> century organizations will be emphasized. An overview of the research literature on leadership will be included. Students will gain insights into how to enhance their own leadership skills.

**MGMT 3400 – Ethics and Corporate Social Responsibility (3)**

Prerequisite: MGMT 3000.

A study of the issues, philosophies, and ethical implications which face businesses in an increasingly complex global society. Covers methods for analyzing and applying personal values, recognizing organizational, cultural and social influences on ethical behavior and recognizing ethical issues and dilemmas in the corporate setting. Also explores the business and society relationship, stakeholder management, and corporate social responsibility.

**MGMT 4100 -- Organization Behavior (3)**

Prerequisite: MGMT 3000 or permission of instructor.

A study of individual and group behaviors and their influence and interrelationships in an organizational environment.

**MGMT 4200 – Organizations and Technology (3)**

Prerequisites: MGMT 3000; BUSA 3100.

This course focuses on how managers use technology to assist in decision making and to increase profitability. The relationship of technology to other processes within organizations is examined. The processes by which managers use technology to achieve organizational goals are analyzed.

**MGMT 4300 – Entrepreneurship and New Ventures (3)**

Prerequisites: MGMT 3000; MKTG 3000.

This course studies the contribution that new ventures and small businesses make to the economy and society as a whole, the characteristics of successful entrepreneurs, the process of starting a new business, and the determinants of new venture performance. Students will be required to prepare a business plan for a prospective new venture.

**MGMT 4400 – Negotiations (3)**

Prerequisites: MGMT 3000; MGMT 4100 recommended.

In this course, students learn how to become effective negotiators in managerial settings. The course is largely experiential, where students learn by doing. Simulated negotiations are also utilized as a means to enhance learning.

**MGMT 4600 – Operations and Project Management (3)**

Prerequisite: MGMT 3000; ITEC 1001; BUSA 2000.

The course will examine the use of systematic processes for maximizing resources for projects, within optimum cost and time parameters. The methodology will include: identification of individual tasks, time implications and costs of each task; logical work flows and bottlenecks; analysis of corrective actions; balancing cost parameters against time impacts; and utilization of appropriate software to analyze projected scenarios to create optimization.

### **MGMT 4700 -- Strategic Management (Capstone) (3)**

Prerequisites: BUSA 2000; BUSA 3100; BUSA 3200; BUSA 3500; FINA 3000; MGMT 3000; MGMT 3040; MGMT 3400; MGMT 4100; MGMT 4600; MKTG 3000; Senior Standing.

The Capstone is designed to integrate knowledge gained in the functional business areas and to exercise students' skills in problem identification, strategy formulation, adoption, implementation, evaluation, and termination.

## **MARKETING (MKTG)**

### **MKTG 3000 – Principles of Marketing (3)**

Prerequisites: BUSA 2105; BUSA 2106.

An introduction to the basic principles of marketing and the marketing environment. Topics include consumer markets, channels of distribution, product and pricing policies, promotion and ethical planning

### **MKTG 3050 – Consumer Behavior (3)**

Prerequisite: MKTG 3000.

A study of the social, economic and cultural influences and expectations which affect attitude formation and decision-making processes of consumers.

### **MKTG 3060 – Retailing (3)**

Prerequisite: MKTG 3000.

An examination of the fundamentals necessary for establishing and effectively operating a retail concern. Includes consideration of the marketing and management challenges faced by retailers.

### **MKTG 3200 – Business to Business Marketing (3)**

Prerequisite: MKTG 3000.

Explores special problems and considerations of marketing products and services to organizational buyers. The course examines organizational buyer behavior, business to business promotion, pricing, and development of industrial products.

### **MKTG 3300 – Principles of Real Estate (3)**

Prerequisite: MKTG 3000.

This course provides an overview of the real estate industry and provides basic tools for analyzing real estate investments. The course blends quantitative and qualitative analysis as well as the extensive use of cases. Students also get to interact with industry leaders who expose students to the latest techniques and trends.

### **MKTG 3400 – Professional Selling (3)**

Prerequisite: MKTG 3000.

This course helps students develop an understanding of the personal selling process and its role within an organization's promotional mix. Customer relationship management (CRM), negotiating skills, as well as other personal selling skills are examined.

### **MKTG 4025 – Marketing Research (3)**

Prerequisites: MKTG 3000; BUSA 2000.

A study of the methods and procedures designed to provide management with information on which to base decisions, including developing and evaluating marketing strategies. Topics include the gathering and use of marketing information from primary and secondary sources, quantitative and qualitative research methodologies.

### **MKTG 4100 – Marketing Management (3)**

Prerequisites: MKTG 3000, MGMT 3000.

Study at an advanced level of the major issues and problem areas facing marketing executives. Development of complete marketing programs; discussion of major marketing problems; analysis of cases.



**MKTG 4200 – Promotion (3)**

Prerequisite: MKTG 3000.

A study of the principles, concepts, and practices relating to the different kinds of communications employed in the dissemination of information about products and services to potential buyers. Aspects of messages and media will be explored.

**MKTG 4300 – Advertising (3)**

Prerequisite: MKTG 3000.

A focus on the formulation of advertising strategy. Includes the use of research to develop and evaluate advertising, as well as creative strategy and media planning. Ethical aspects of advertising are also discussed.

**MKTG 4400 – International Marketing (3)**

Prerequisites: MKTG 3000; BUSA 3200.

An examination of the major marketing issues and opportunities facing business managers in an international setting. Primary emphasis is on the study of developing and adjusting strategies in light of home and host countries' incentives and restrictions.

**MKTG 4450 – Global Marketing and the Internet (3)**

Prerequisites: MKTG 3000; BUSA 3200.

The course focuses on global marketing in the internet age and examines the characteristics of e-commerce that are likely to apply in the international arena. It focuses on the intersection of the international environment, e-commerce and marketing with particular attention to the impact of internet technology on marketing strategy and practices and the marketing mix. The course also describes the importance of cultural dynamics and business customs on effective internet marketing. The e-commerce environment is examined in countries located in Europe, Latin America and the Far East.

**MKTG 4500 – Studies Abroad (3 or 6)**

*Cross-listed with BUSA 4500.*

Prerequisites: Consent of Instructor. Analysis of the role and impact of cultural, economic, social, political, and legal factors on business through travel to a foreign country or countries. Includes lectures, discussions, facilities tours. Direct costs such as airfare, hotels, etc., are added to normal tuition charges.

**MKTG 4751 – Business Internship/Experiential Learning (3)**

*Cross-listed with BUSA 4751.*

Prerequisite: Approval of Advisor.

Individually designed learning opportunity in which the student is involved in the normal operations of an organization in the private or public sector.

**MUSIC (MUSC)**

**MUSC 1100 – Music Appreciation (3)**

Introduction to Music History and literature.

**PHYSICAL EDUCATION (PHED)**

**PHED 1101 Choices for Life (1)**

Explores specific topics to inform and promote healthy lifestyles. Each topic covered includes information to assist in making good lifestyle choices. Topics explore the various societal mores, available scientific information, and personal habits that affect wellness, longevity, and healthy living.

**PHYSICS (PHYS)**

**PHYS 1101 – Physical Sciences I (3)**

Prerequisites: MATH 1111; ENGL 0099; READ 0098.

An introductory physical sciences course for non-science majors. Includes both chemistry and physics topics. Course and laboratory component are to be taken together.

**PHYS 1101L – Physical Sciences I Laboratory (1)**

Laboratory course accompanying PHYS 1101.

**PHYS 1102 – Physical Sciences II (2)**

Prerequisite: PHYS 1101/1101L.

A continuation of PHYS 1101. Includes both chemistry and physics topics.

**PHYS 1102L – Physical Sciences II Laboratory (1)**

Laboratory course accompanying PHYS 1102.

**PHYS 2211 – Principles of Physics I (3)**

Prerequisite: MATH 2200.

An introductory course which will include material from mechanics, thermodynamics, and waves. Elementary differential calculus will be used.

**PHYS 2211L – Principles of Physics I Laboratory (1)**

Laboratory exercises supplement the class material of PHYS 2211.

**PHYS 2212 – Principles of Physics II (3)**

Prerequisite: PHYS 2211/2211L.

An introductory course which will include material from electromagnetism, optics, and modern physics. Elementary differential and integral calculus will be used.

**PHYS 2212L – Principles of Physics II Laboratory (1)**

Laboratory exercises supplement the class material of PHYS 2212.

**PHYS 3000 – Modern Physics (3)**

Prerequisite: PHYS 1112/1112L or PHYS 2212/2212L.

A calculus-based course covering modern physics topics to include special relativity and nuclear physics.

***POLITICAL SCIENCE (POLS)***

**POLS 1101 – American Government (3)**

Prerequisite: READ 0098.

Covering the essential facts of national government in the United States, with some attention given to state government, including the State of Georgia, this course satisfies state law, requiring examination on United States and Georgia Constitutions.

**POLS 2101 – Introduction to Political Science (3)**

Prerequisite: POLS 1101.

This course is an introduction to the Political Science fields of Political Theory, Comparative Politics, and International Politics.

**POLS 2201 – State and Local Government (3)**

Prerequisite: POLS 1101.

Covering the essential facts of state and local government and politics in the United States, this course places particular emphasis upon the Constitution and the government of the State of Georgia.

**POLS 2601 – Introduction to Public Administration (3)**

Prerequisite: POLS 1101.

This course is a survey of the field of American public administration. It is designed to provide students with a general overview and introduction to the development, concepts, facts, functions and generalizations concerning the public administration system in the United States. It includes the study of the legislative, executive and judicial branches of the U.S. government, governmental agencies, non-governmental agencies, non-profit agencies and their interconnection in the policymaking and policy implementation process.

## **PSYCHOLOGY (PSYC)**

### **PSYC 1102 – The Psychological Experience (3)**

Prerequisite: READ 0098.

Examination of psychological phenomena from biobehavioral and sociobehavioral perspectives. Contemporary issues in psychology such as intelligence, development, perception, learning, abnormal behavior, language, and social behavior are explored. Scientific methodology and its application to psychological phenomena are stressed.

### **PSYC 2000 – Sophomore Seminar (3)**

Prerequisite: PSYC 1102.

Discussion of professional, research, and educational methods and objectives in psychology. Acquaints psychology majors with psychology as a profession, and with the various options available to them at various levels of training. Includes a panoramic view of methods to study the mind, brain and behavior involving neuroscientific techniques, evolutionary psychology, web-based experimentation, traditional laboratory experiments, and field studies. Should be taken during second semester of sophomore year.

### **PSYC 2010 -- Writing in Psychology (3)**

Prerequisite: PSYC 1102.

The purpose of this course is to improve your writing skills. The emphasis of this course is on writing for psychology papers. Attention will be paid to mastering the APA style. In addition, you will learn how to identify a topic for research, use online search engines to locate empirical articles for review, research and analyze empirical articles, and compose a written review of literature.

### **PSYC 2100 -- Introduction to Cognition & Learning (3)**

Prerequisite: PSYC 1102.

The student focuses on the nature of human learning and cognition, proceeding from classical and operant conditioning to more complex cognitive processes. Particular attention is given to practical application of learning and cognitive theory on a variety of settings. The student is required to observe behavior and analyze learning and cognitive processes underlying this behavior. Students will explore how variations in cultural contexts may influence learning processes.

### **PSYC 2200 -- Introduction to the Biology and Neuroscience of Psychology (3)**

Prerequisite: PSYC 1102.

This course examines how the internal and external environments act upon the brain to produce perceptions, control body functions, and generate behavior. Basic principles of neuroanatomy, neurophysiology, and neurochemistry are discussed to develop an understanding of how these brain properties underlie human thought, physiology, and behavior. Topics include learning and memory, emotions, and neurological and neuropsychiatric disorders. The goal of this course is to make current knowledge about the nervous system accessible to interested students who may have had little or no college level background in biology or psychology.

### **PSYC 2300 -- Introduction to Social/Applied Psychology (3)**

Prerequisite: PSYC 1102.

This course explores social behavior in casual and workplace environments. Laboratory/research experience is included.

### **PSYC 2400 -- Introduction to Abnormal Psychology (3)**

Prerequisite: PSYC 1102.

This course explores the field of abnormal psychology. Abnormality will be presented through socio-historical and cultural contexts. The course will examine several theories of abnormality and the etiology and treatment of major psychology disorders. In addition, the course will explore research issues related to disorders and treatments. The course will also present legal and social issues in the field of mental health.

### **PSYC 2500 -- Introduction to Developmental Psychology (3)**

Prerequisite: PSYC 1102.

The course provides a general introduction to the field of developmental psychology. We consider four major areas of development – physical, cognitive, emotional, and social – from conception to death. The course emphasizes the

interconnections of all facets of development and the strong interconnections between the individual, his or her family, and the social world that provides a niche for development. Attention is given to normative development as well as to the diversity of individual patterns of growth. Diversity of social contexts for development is also emphasized. The course will pay special attention to those factors within the individual and the social context that promote healthy and competent growth, and programs and interventions that seek to reduce risks for development.

**PSYC 3000 -- Junior Seminar (3)**

Prerequisite: PSYC 1102.

The junior seminar is a course aimed at allowing students to further explore the relationship of the field of psychology to their world. Throughout the course, students will be exposed to various community agencies, researchers, and program directors who will engage students in dialogue about the role of psychology in addressing social problems. Students will use this seminar to complete their senior project research proposal.

**PSYC 3020 -- Research Methods and Analysis I (4)**

Prerequisite: PSYC 1102.

This course will cover issues related to scientific research methodology. Research & Design I will explore a variety of research issues related to the research process used in the behavioral sciences. It is the intention that students will become familiar and competent with various social science research issues and methodologies

**PSYC 3030 -- Research Methods and Analysis II (4)**

Prerequisite: PSYC 1102.

This course emphasizes further exploration into research design and analysis. In this course, we will discuss what data are important, how to present data, how to analyze data properly, and finally, how to draw (logical) conclusions based on our results.

**PSYC 3100 -- Psychology of Learning (4)**

Prerequisite: PSYC 1102.

The phenomena and theories of animal and human learning, including Pavlovian conditioning, operant conditioning, discrimination learning and verbal learning will be discussed  
Laboratory/research experience is included

**PSYC 3110 -- Cognitive Psychology (4)**

Prerequisite: PSYC 1102.

Contemporary theories of human information processing. Major topics include attention, mental representations, categorization, short-term and long-term memory, psycholinguistics, reasoning, problem-solving, judgment, and decision making. Laboratory/research experience is included.

**PSYC 3120 -- Sensation & Perception (3)**

Prerequisite: PSYC 1102.

How organisms sense and perceive the environment. Topics discussed: anatomy and physiology of the sensory systems, types of stimuli affecting sensory systems, and current knowledge and theories of our perceptual abilities. Laboratory/research experience is included.

**PSYC 3200 -- Biological Psychology (3)**

Prerequisite: PSYC 1102.

Introduction to brain, basic physiological processes, and their roles in behavior. Topics may include: sensing and perceiving; neural bases of action; motivation; learning and memory; and consciousness. Both experimental and clinical data are considered.

**PSYC 3220 -- Comparative Psychology (3)**

Prerequisite: PSYC 1102.

The biological bases of human and nonhuman behavior, with emphasis on underlying physiological mechanisms, and on the development, evolution, and function of behavior. Laboratory/research experience is included.

**PSYC 3300 --Advanced Social Psychology (3)**

Prerequisite: PSYC 1102.

This course focuses on social behavior, with an emphasis on social interaction and group influence. Topics covered will include social perception, the formation of attitudes and prejudice, attraction, conformity and obedience, altruism and aggression, and group dynamics.

**PSYC 3310 -- Human Sexuality (3)**

Prerequisite: PSYC 1102.

Research in human sexual behavior. Emphasis is given to empirical findings and current personal and social implications. Topics include variations in sexual behavior, deviance, social patterns, assessment, and treatment.

**PSYC 3320 -- Human Diversity (3)**

Prerequisite: PSYC 1102.

This survey course will provide students with an overview of different topics related to human diversity. Students will examine a variety of topics including age, gender, race, culture, speech, and socioeconomic status. Students will have numerous opportunities for critical thinking. Students will also review research related to diversity issues.

**PSYC 3400 -- Personality Psychology (3)**

Prerequisite: PSYC 1102.

The purpose of the course is to compare the contributions and limitations of major theoretical perspectives on social behavior, and to learn about the nature of theory construction and theory-testing in psychology generally. Both general models and middle-level models of social behavior are reviewed. The advantages and disadvantages of different models for different levels and different kinds of social-personality phenomena are highlighted. Exercises comparing the predictions of different theories for the same study are designed to acquire an appreciation of how to operationalize theories and an understanding of the various features of a "good" theory.

**PSYC 3410 -- Psychopathology (3)**

Prerequisite: PSYC 1102.

The course provides an advanced study of several psychological conditions and their treatment. These include chronic mental illness, suicide, eating disorders, and depression. We draw on an array of disciplines, including psychology, psychiatry, the history of medicine, social anthropology, feminist studies, and cultural studies. We pay critical attention to the differing practices of producing knowledge and the different kinds of knowledge that result.

**PSYC 3420 -- Health Psychology (3)**

Prerequisite: PSYC 1102.

This course examines how biological, psychological, and social factors interact with and affect: (1) The efforts people make in promoting good health and preventing illness. (2) The treatment people receive for medical problems. (3) How effectively people cope with and reduce stress and pain. (4) The recovery, rehabilitation, and psychosocial adjustment of patients with serious health problems. The course will also focus on the role of stress in illness; certain lifestyle factors, such as smoking or weight control; and specific chronic illnesses, such as cancer and heart disease.

**PSYC 3500 -- Educational Psychology (3)**

Prerequisite: PSYC 1102.

This course considers a particular application of the more important psychological principles to educational theory and practice. This course embraces a systematic study of the educable being, habit formation, phases of learning, intellectual and emotional growth, and character formation. Individual differences, transfer of training, interest, attention, and motivation, insofar as they influence the teaching process, will be included. Laboratory/research experience is included.

**PSYC 3510 -- Child Development (3)**

Prerequisite: PSYC 1102.

This course reviews the literature on child biological, motor, perceptual, cognitive (including intelligence), language, emotional, social, and gender development. Child development history, theory, and research strategies will be discussed, as well as the effect of family, peers, media, and schooling.

**PSYC 3520 – Adolescence (3)**

Prerequisite: PSYC 1102.

The course examines issues of adolescent development, experiences, and contexts of adolescents' lives today. The course examines theories, research and issues of adolescent physical, social-emotional, and cognitive development and their reciprocal influences. We will look at a range of environments that influence (and are influenced by) adolescents; including peers, family, schools, work, media and community. Each area of development is viewed within the context of adolescents' lives, and using a biopsychosocial framework. Includes historical, demographic, cross-cultural, and applied perspectives. Diversity issues such as culture, socio-economic class, ethnicity, gender, and sexual orientation are interwoven throughout the course. We will assess elements of the environment that can impact, impede, or facilitate the experiences of adolescents and their families. Opportunities exist for application of course information to both personal and professional contexts.

**PSYC 3530 -- Adult Development and Aging (3)**

Prerequisite: PSYC 1102.

This course examines different issues related to early, middle, and late adulthood. Emphasis will be placed on physical, cognitive, and psychosocial development. Several topics will be addressed including memory, work, relationships, and death. An examination of diversity issues as they relate to adult development and the aging process will be infused throughout the course.

**PSYC 3540 -- Gender and Sexuality (3)**

Prerequisite: PSYC 1102.

In this course, we will attempt to deconstruct gender and sexuality from multiple theoretical perspectives. We will draw on empirical research and theoretical writings from anthropology, psychology, and sociology as we attempt to define what it means to be male and female and what it means to be a sexual being. A number of topics related to gender and sexuality will be covered, including: gender differences; gender identity; gender as a social construct; sexual identity; influences of the media on sexual development; and body image. We will also consider applications of gender and sexuality studies research to issues of family, work, marriage, education, and human trafficking. Gender cannot be studied without understanding the intersections of race and class. Emphasis will be placed on appreciating and negotiating differences in gender construction and development from a variety of perspectives.

**PSYC 4000 -- Senior Seminar (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

A capstone course aimed at an integrated review of the field through seminar discussions, oral reports, field experience, practitioner interviews, and/or independent research projects. Focus is upon the perspectives and prescriptions in contemporary psychology.

**PSYC 4100 -- Concepts and Categorization (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

The course will review current psychological models of how conceptual categories are represented in memory. Each model will be presented together with a critique of its range of applicability, and an evaluation in terms of (a) empirical evidence and (b) philosophical arguments about the role that concepts must play in thought and language. The course will combine a tutorial presentation of current models and theory with a review of recent empirical work in the field.

**PSYC 4110 – Memory (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

The course will discuss human memory and explore the capabilities and limitations of our memory. Major phenomena, experimental procedures, and theoretical models of human memory will be discussed.

**PSYC 4120 -- Language and Mind (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

Recent theoretical and experimental work on the psychological aspects of semantics, grammar, and discourse processes are surveyed. Language development is also considered.

**PSYC 4130 -- Cognitive Neuroscience (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

The field of cognitive neuropsychology serves as an interface between cognitive psychology (the study of information processing) and neuroscience (the study of the physical brain). In this course, we first will examine traditionally-defined topics in cognitive psychology (e.g., visual perception, attention, executive function, memory, motor control, language, consciousness), and address: (a) how available cognitive theories have shaped the investigation of cognitive disorders in brain damaged patients, and (b) how the resulting neurological data has shaped (or reshaped) cognitive theory. Although the focus of this course will be on findings from studies of cognitive disorders in patients with localized brain damage, we will also seek converging evidence from complementary techniques that allow examination mind-brain relationships in normal individuals, including functional neuroimaging (e.g., PET, fMRI) and neuromonitoring (e.g., ERP).

**PSYC 4140 -- Cognitive Gerontology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This class will examine research in gerontology, with emphasis on learning, personality, attitudes, perception, ability, and adjustment in the aged.

**PSYC 4150 -- Problem Solving (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

Cognitive processes underlying human reasoning, problem solving, judgment, and decision making will be examined. Much of the discussion focuses on current models of these processes, and on the comparison between how rational people (or machines) should ideally behave and how they actually behave in everyday problem solving and decision making.

**PSYC 4200 -- Behavioral Neuroscience (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

An introduction to human brain anatomy, physiology, and function. Focus on basic concepts of neural function and on brain mechanisms underlying higher cognitive abilities. Includes readings about and videos of patients with neuropsychiatric disorders or brain lesions.

**PSYC 4210 Cognitive Neuroscience (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

The field of cognitive neuropsychology serves as an interface between cognitive psychology (the study of information processing) and neuroscience (the study of the physical brain). In this course, we first will examine traditionally-defined topics in cognitive psychology (e.g., visual perception, attention, executive function, memory, motor control, language, consciousness), and address: (a) how available cognitive theories have shaped the investigation of cognitive disorders in brain damaged patients, and (b) how the resulting neurological data has shaped (or reshaped) cognitive theory. Although the focus of this course will be on findings from studies of cognitive disorders in patients with localized brain damage, we will also seek converging evidence from complementary techniques that allow examination mind-brain relationships in normal individuals, including functional neuroimaging (e.g., PET, fMRI) and neuromonitoring (e.g., ERP).

**PSYC 4220 -- Psychopharmacology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

The effects of psychoactive drugs on consciousness and behavior. The mechanisms of drug action on neurotransmitter systems are emphasized. Topics include the relationship between behavior and endogenous neurochemical activity, therapeutic agents in psychopathology, and drugs of abuse.

**PSYC 4300 -- Industrial/Organizational Psychology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

Introduction to the methods used by industrial/organizational psychologists to increase organizational effectiveness and individual well-being. Topics include selection, training, appraisal, job attitudes, work motivation, leadership, job design, organizational culture, and work environment.

**PSYC 4310 Psychology and Culture (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

Much of psychology has been concerned with discovering universals of human behavior. However, people in different cultural settings understand themselves and their social worlds in radically different ways. Their ways of being, emotional life, moral and ethical ideas, intimate relationships, and ideals differ radically. This course will

examine issues such as conformity, leadership, and attributional style as they vary across different cultures, with consideration of their implications for the emerging world.

**PSYC 4330 -- Sports Psychology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

As the demand for enhanced sport performance continues, the cognitive or mental aspects within sport are being exposed. Sport Psychology has evolved through this need. Specifically, this course will relate the application of conventional psychological areas (personality, motivation, aggression, etc.) to the arena of sport.

**PSYC 4340 -- Consumer Behavior (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

Examination of the role of psychological processes (such as attitudes, needs, personality) in influencing one's reaction to consumer goods and services. Implications for advertising, marketing research, and public opinion polling will be addressed.

**PSYC 4350 -- Introduction to Forensic Psychology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This course will provide an overview of the field of clinical forensic psychology and the various ways in which psychology interacts with the legal system. This course will acquaint students with the substantive laws that are addressed in forensic evaluations (e.g., legal definitions of competency and criminal responsibility) and the ways in which forensic psychological practice may differ from general clinical practice (e.g., the importance of obtaining and evaluating third-party information when conducting forensic assessments). The nature and importance of relevant ethical principles governing the practice of psychology in relation to the legal system will also be discussed. Specific topics include psychological testimony, civil commitment, assessments of dangerousness, the rights of mentally disabled individuals, competency to stand trial, child custody disputes, and assessment of psychological damages in civil litigation. The appropriate scope and limitations of psychological practice and techniques in relation to the legal system will be discussed throughout the course.

**PSYC 4360 -- Political Psychology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

Introduction to basic concepts, principles, and content areas of political psychology, including political cognition and decision making; emotion and motivation in politics; political attitudes, values, and ideology; political socialization; political personality; political leadership; political participation; political conflict; public opinion and the media.

**PSYC 4370 -- Psychology and the Legal System (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

An introduction to the application of psychological topics to law, including the legal process; trials and juries; eyewitness testimony; presentation of scientific evidence; and the use of social science in the legal system.

**PSYC 4380 -- Psychology of Prejudice (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

The course will review classic and current literature from experimental social psychology pertaining to stereotyping and prejudice. Issues that will be covered include the functions and costs of stereotyping, the formation and maintenance of stereotypes, and stereotype change. Recent research concerning the role of cognitive processes in intergroup perception will be emphasized. Students in this course will critically examine both classic and contemporary research on stereotyping and prejudice, with particular attention to how approaches to this kind of research have changed over the past 20 years. Class discussions will focus on what stereotypes are, how they develop and are perpetuated, what their consequences are – both for the stereotyper and for his/her target. We will consider the theoretical distinction between stereotypes and prejudice and discuss whether this distinction has meaning in real life. From there, we will consider how prejudice is studied and evidenced in today's politically correct environment, and how one attempt at a "solution" to prejudice (affirmative action) has turned out. The course will conclude with an exercise developed to help students respond to others' use of stereotyping and prejudice – whether they themselves are targets or not.



**PSYC 4400 – Selected Topics in Psychology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030 and Consent of Instructor.

Study of current research in Psychology and related disciplines. May be repeated for credit when topic varies.

**PSYC 4401 -- Community Health, Assessment, and Planning (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This course studies the issues and challenges associated with the development and assessment of innovative mental health intervention in community settings. Topics include the history of community health, multidisciplinary and multicultural participation, the development of health priorities in community settings, and the role of partnerships in program development. Laboratory/research experience is included.

**PSYC 4410 -- Psychological Assessment (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This course introduces the conceptual, practical, ethical, and legal issues related to psychological assessment. Topics include discussion of standards for testing (e.g., validity, reliability, norming, test development, avoidance of cultural bias) and general guidelines for selections of particular types of assessment methods for individuals (e.g., standardized test, direct observation, questionnaire, interview). Laboratory/research experience is included.

**PSYC 4420 -- Clinical Psychology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This course will present an introduction to clinical psychology by considering the scientific methods used in clinical psychology as well as descriptive, etiological, and treatment perspectives on various forms of psychopathology and psychological dysfunction. Clinical psychologists often have a variety of professional roles, and we will discuss some of the career paths that clinical psychologists follow, such as research, teaching, intervention, and public policy. The required textbook for the course will provide you with an overview of the current research and theory on the causes, descriptions, and treatments of different psychological disorders. Lectures, discussions, and films will supplement the text, allowing for a more broad-based coverage of the material. Sections are a required part of the course and will allow for a more detailed examination of some of the topics. Laboratory/research experience is included.

**PSYC 4430 -- Developmental Psychopathology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This course covers several psychological disorders that often first appear in childhood and adolescence, including autism and other developmental disorders, attention-deficit disorder, conduct disorder, eating disorders, and emotional disorders. Theories about the causes and treatment are discussed. A heavy emphasis is on current research questions and empirical findings related to each disorder.

**PSYC 4450 – Directed Readings in Psychology (1)**

Prerequisite: Permission of faculty member who is to direct the reading.

Individual study of readings under the direction of a faculty member. Oral and/or written reports will be required. Repeatable for maximum of 3 hours credit

**PSYC 4500 -- Social and Moral Development (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

In this course, we draw on philosophy, psychology, and sociology, as well as on art and literature to examine empirical studies of social and moral development in childhood and adolescence. The development of moral perspectives, or what it means to a child or an adolescent to be good, is considered against the backdrop of moral issues and injustices of race and racism.

**PSYC 4510 -- Culture and Ethnic Diversity (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

Social and behavioral science approach to understanding forces and ideas that have shaped the individual and collective experience of people of various ethnic and cultural backgrounds. Psychophysiology and issues of race consciousness, identity, self-concept, education, public policy, and family relations are discussed in this course.

**PSYC 4520 -- Advanced Developmental Psychology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This course provides a review and analysis of major theoretical and empirical issues related to child, adolescent, and adult development.

### **PSYC 4530 -- Marriage and Family (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This Course will specifically examine the major challenges, and changing trends facing families and marriages. Families and marriages will be studied as dynamic systems. The course will explore the changing nature of family patterns and marriages in the U.S., as well as some comparisons to non-Western cultures. Areas of study include the family in historical perspective, family life course, socialization within families, gender roles, parent-child relations, non-traditional families, alternative unions, marital interaction and power, and reconstituted families.

### **PSYC 4540 -- Black Psychology (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

Covers historical impact of scientific and institutional racism on the psychological study of blacks. Survey and critical analysis of traditional European approaches with non-traditional methods for comparison. Future development and advancement of a black psychology considered.

### **PSYC 4550 -- The Psychology of Hate (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

The primary objective of this course is to understand hate. We will be exploring current research into hate crimes and hate groups as well as examining both the futility and utility of hate. Topics that will be covered include, but are not limited to in-group/out-group bias, self-esteem, aggression, history of hate groups, hate on the internet and in the media, hate crime legislation, and Constitutional issues. Additionally, we will be debating controversial topics in the areas of race, sexual orientation, gender, gender identity or expression, and religion.

### **PSYC 4560 -- Trauma Across the Lifespan (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This course delineates a theoretical and practical integration of eco-developmental approaches to psychological trauma. The consequences of early traumatic experience will be mapped in the context of psychosocial developmental processes, including attachment, social interaction, emotional expression, and cognitive construction of worldview. The impact of repeated trauma in the lives of children and adolescents will be explored in the context of developmental transformations and in relationship to psychopathology, gender, and bio-physiology. The course will emphasize the nature of childhood trauma and the developmental consequences in later childhood, adolescence, and adulthood. The concepts of risk, psychopathology, and resilience will be examined in the context of traumatic exposure, and the transformation of developmental processes and alternate developmental pathways. Examples of childhood victimization and trauma will include child maltreatment, family violence, illness, loss, and war. Although the primary focus of the course is on individual developmental consequences of trauma, socially and culturally related trauma will be discussed in the context of the eco-developmental framework. Applications of trauma research and theory from a multidisciplinary perspective will be considered as they relate to parenting roles and larger cultural contexts. Intervention and advocacy as well as the institutional and community responses to traumatized children and families will be addressed.

### **PSYC 4570 -- Migration and Family (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

This course will discuss the nature of immigration and the impact of such life transition on families. The course will inform students of the major changes in U.S. families over the past three decades due to immigration and immigrant policies, and the assimilation and adaptation process of these families. It will focus upon changes in immigrant streams over time and implications for current population of families in the U.S. It will then focus on discussions of the variety of types of ethnic families in the United States, and focus upon the parenting activities and behaviors of these families, and the development of the second and third generations.

### **PSYC 4600 -- History & Systems (3)**

Prerequisite: PSYC 1102; PSYC 2000 or PSYC 2010; PSYC 3020; PSYC 3030.

The purpose of this course is to explore the historical roots of the questions psychologists have chosen to investigate, the evolution of the methods of psychological research, the development of applied psychology, and provide you with a framework that explains the relationships between the various sub-disciplines of psychology. By

examining the history and basic concepts that have shaped psychology it will become possible to see the relationships between seemingly disparate areas of psychology and gain an understanding of the philosophical and scientific significance of many of the questions that psychologists have chosen to examine.

**PSYC 4601 – Senior Project Proposal (2)**

Prerequisite: Consent of instructor directing the project. The development and presentation of the project to be presented for PSYC 4602. A formal written proposal and oral presentation will be required.

**PSYC 4602 – Senior Project (2)**

Prerequisite: Consent of instructor directing the project. The implementation and completion of the project developed in PSYC 4601. A formal written report and oral presentation will be required.

**PSYC 4603 – Senior Directed Readings (1)**

Prerequisite: PSYC 1102 and consent of instructor directing the project.

The implementation and completion of the project developed in the Junior Seminar. A formal written report and oral presentation will be required.

**PSYC 4751 – Psychology Internship (2)**

Prerequisite: PSYC 1102 and consent of instructor.

Supervised, structured field experience applying psychological principles, theory and research. May be repeated once for additional credit.

**READING (READ)**

**READ 0091 – Developing College Reading Workshop for Business Majors (2\*)**

A workshop that focuses on improving reading proficiency in business textbooks and articles. Students analyze articles from their college level classes and have extra time to study materials, ask questions, work on vocabulary and comprehension, and review notes.

\*Institutional load credit only.

**READ 0092 – Developing College Reading Workshop for Science Majors (2\*)**

A workshop that focuses on improving reading proficiency in science textbooks and articles. Students analyze articles from their college level classes and have extra time to study materials, ask questions, work on vocabulary and comprehension, and review notes.

\*Institutional load credit only.

**READ 0093 – Developing College Reading Workshop for Liberal Arts Majors (2\*)**

A workshop that focuses on improving reading proficiency in textbooks and articles in psychology, history, etc. Students analyze articles from their college level classes.

\*Institutional load credit only.

**READ 0097 – Student Success Basic Reading Skills (4\*)**

A course designed to meet the needs of students who have weaknesses in knowledge acquisition, reading comprehension strategies and application to college level materials. The focus is competency in vocabulary strategies, communication and comprehension skills using expository and narrative writing.

\*Institutional load credit only.

**READ 0098 – Student Success Advanced Reading Skills (4\*)**

Prerequisite: READ 0097.

The course emphasizes inferential, interpretive and critical reading comprehension strategies. It focuses on analysis, synthesis and evaluation of text as well as efficient reading, and study and test-taking skills.

\*Institution load credit only.

## **REGENTS' TEST PREP (RGTE, RGTR)**

### **RGTE 0199—Regents' Test Prep Writing (0)**

The Regents' Writing Skills course is intended to ensure that all graduates of USG institutions possess certain minimum skills in writing. Students learn to evaluate their own writing strengths and weaknesses and work on improving their writing skills so that they are able to write an essay meeting the Regents' criteria.

### **RGTR 0198 – Regents' Test Prep Reading (0)**

The Regents' Reading Skills course is intended to ensure that all graduates of USG institutions possess certain minimum skills in reading comprehension. Students work on improving their comprehension of material drawn from a variety of subject areas (social science, natural science and humanities) with various modes of discourse (exposition, narration and argumentation). Critical thinking and the following four major aspects of reading are emphasized: vocabulary in context, inferential and literal comprehension, and analysis.

## **RELIGION (RELN)**

### **RELN 1100 – World Religions (3)**

Prerequisite: READ 0098.

An introductory course designed to provide an analytical, critical, and comparative study of the major world religious traditions.

## **SOCIOLOGY (SOCI)**

### **SOCI 1101 – Introduction to Sociology (3)**

Prerequisite: READ 0098.

A survey of the discipline of sociology. Topics will include sociological theory, methods and selected substantive area.

### **SOCI 1160 – Introduction to Social Problems (3)**

Prerequisite: READ 0098.

A theoretical and empirical analysis of selected major social problems confronting American society.

### **SOCI 2293 – Introduction to Marriage and Family (3)**

Prerequisite: SOCI 1101.

An introduction to the structure, processes, problems and adjustments of contemporary marriage and family life.

## **SPANISH (SPAN)**

### **SPAN 1001 – Elementary Spanish I (3)**

Introduction to listening, speaking, reading and writing in Spanish and to the culture of Spanish-speaking regions.

### **SPAN 1002 – Elementary Spanish II (3)**

Prerequisite: SPAN 1001.

Continued listening, speaking, reading and writing in Spanish with further study of the culture of Spanish-speaking regions.

### **SPAN 2001 – Intermediate Spanish I (3)**

Prerequisite: SPAN 1002.

This course is a continuation of the beginning Spanish language courses (SPAN 1001 and 1002). This course consists of listening, speaking, reading, and writing in Spanish with advanced study of culture of Spanish-speaking regions

**SPAN 2002 – Intermediate Spanish II (3)**

Prerequisite: SPAN 2001.

Review of Spanish grammar with emphasis on speaking, reading, and writing. Although a review of the grammar is part of this course, emphasis will be on communicating in Spanish. Classes will be conducted entirely in Spanish.

**THEATRE (THEA)**

**THEA 1100 – Theatre Appreciation (3)**

Survey and critical appreciation of Theatre.

## OFFICERS OF THE ADMINISTRATION

### **DANIEL J. KAUFMAN (2005)**

**President; Professor of International Relations**

B.S., United States Military Academy

M.P.A., Harvard University

Ph.D., Massachusetts Institute of Technology

### **STANLEY C. PRECZEWSKI (2006)**

**Vice President for Academic and Student Affairs; Professor of Psychology**

B.S., Cornell University

M.A., United States Naval War College

M.S., University of Massachusetts

Ph.D., University of Missouri-Columbia

### **EDWIN R. BEAUCHAMP (2006)**

**Vice President for Business and Finance**

B.S., Lipscomb University

### **GORDON HARRISON (2006)**

**Vice President for Advancement; President, Georgia Gwinnett College Foundation**

B.A., University of South Florida

M.A., Kennesaw State University

Ph.D., Georgia State University

### **LONNIE HARVEL (2006)**

**Vice President for Educational Technologies**

**Chief Information Officer; Associate Professor of Information Technology**

B.F.A., University of Georgia

M.S.C.S., University of Georgia

Ph.D., Georgia Institute of Technology

## FACULTY

### **DONNA T. ABRAMS (2007)**

**Assistant Professor of Sociology**

B.A., Lincoln University

M.A., University of Maryland

Ph.D., Clark Atlanta University

### **ROBERT M. ANSERVITZ (2007)**

**Instructor**

B.A., University of Pittsburgh

M.S., University of Illinois

Ph.D., University of Illinois

### **ALVINA J. ATKINSON**

**Associate Professor of Mathematics (2007)**

B.S., Dillard University

M.A., University of Northern Iowa

Ph.D., Auburn University

**ALESSANDRA L. BARRERA (2007)**

**Assistant Professor of Biology**

B.S., Saint Edwards University

Ph.D., University of Chicago

**TERRY L. BARRON (2007)**

**Assistant Professor of Mathematics**

B.A., Bowling Green State University

M.A., University of Akron

M.S., Troy State University

Ph.D., University of Georgia

**PATRICE BELL (2007)**

**Assistant Professor of Chemistry**

B.A., Agnes Scott College

Ph.D., Purdue University

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B.S., University of Kentucky

M.S., University of Georgia

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B.S., University of Mumbai

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**Associate Professor of Finance**

B.C.O.M., University of Bombay

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M.S., Mercer University

Ph.D., Nova Southeastern University

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**DMITRY V. SHISHKIN (2007)**

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**Director of Facilities**

B.Th., Carver Bible College  
B.S., Georgia Institute of Technology  
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**Director of Development**

B.S., Meredith College  
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