

**B.S. in Chemistry – Business Track**
**AY 2021-2022**

	First Semester		Second Semester	
<b>1<sup>st</sup> Year</b>	CHEM 1211K (4) MATH 1551 (2) ENGL 1101 (3) GT 1000 (1) CS 1301* (3) APPH 10XX* (2) <i>Sub-Total (15)</i>	Chemical Principles I Differential Calculus English Comp. I Freshman Seminar CS Requirement Wellness Requirement	CHEM 1212K (4) CHEM 2601 (1) MATH 1552 (4) ENGL 1102 (3) BIOS 1107 (3) BIOS 1107L (1) <i>Sub-Total (16)</i>	Chemical Principles II Prof. Skills for Chemists Integral Calculus English Comp. II Biological Principles Biological Principles Lab
<b>2<sup>nd</sup> Year</b>	CHEM 2214 (4) CHEM 2311 (3) MATH 1553 (2) PHYS 2211 (4) Free Elective (3) <i>Sub-Total (16)</i>	Quantitative Analysis Organic Chemistry I Intro. Linear Algebra Intro. to Physics I	CHEM 2312** (3) CHEM 2380 (2) MATH 2551 (4) PHYS 2212 (4) MGT*** Elective (3) <i>Sub-Total (16)</i>	Organic Chemistry II Synthesis Lab I Multivariable Calculus Intro. to Physics II
<b>3<sup>rd</sup> Year</b>	CHEM 3411 (3) CHEM 3111 (3) CHEM 3380 (3) MGT Elective*** (3) Core Elective* (3) <i>Sub-Total (15)</i>	Physical Chemistry I Inorganic Chemistry Synthesis Lab II	CHEM 3412 (3) CHEM 3481 (2) CHEM 3216 (3) CHEM 3216L (2) MGT Elective*** (3) Core Elective* (3) <i>Sub-Total (16)</i>	Physical Chemistry II Physical Chem Lab I Analytical Chemistry Analytical Chemistry Lab
<b>4<sup>th</sup> Year</b>	CHEM 4699**** (2) BCHM Elective***** (3) MGT Elective*** (3) Core Elective* (3) Core Elective* (3) <i>Sub-Total (14)</i>	Undergrad Research	CHEM Elective***** (3) Core Elective* (3) Core Elective* (3) Free Elective (5) <i>Sub-total (14)</i>	

**Note:** 39 credit hours of 3XXX/4XXX level coursework is required to graduate.

Only Free Electives can be taken as Pass/Fail.

Maximum 6 hours of CHEM 2699 and 12 hours of CHEM 4699.

The last 36 hours must be taken in residence and may not be transferred in.

* Core Electives:	APPH 1040 or 1050 or 1060 (2) CS 1301 (3) Humanities electives (6 hours required) Social Sciences electives (9 hours required) History/constitution requirement: HIST 2111 (3), HIST 2112 (3), PUBP 3000 (3), INTA 1200 (3), or POL 1101 (3) (Credit not allowed for both INTA 1200 and POL 1101)
** CHEM 2312:	CHEM 2313, Bioorganic Chemistry II, can be substituted for CHEM 2312, Organic Chemistry II.
***MGT Electives:	A minimum of 15 credit hours of management electives are required. Students must complete one course from each of categories A-C and two from category D with a minimum grade of D. See next page for courses and pre-requisites. Note there are some core electives can also count as management electives. If this occurs additional free electives are needed to earn a total of 122 credit hours for graduation.
**** CHEM 4699:	CHEM 4695, Undergraduate Internship, can be substituted for CHEM 4699, Undergraduate Research.
***** BCHM Elective:	CHEM 3411, Survey of Biochemistry, or CHEM 4511, Biochemistry I
***** CHEM Elective	A minimum of 3 credit hours of chemistry electives are necessary for graduation. Chemistry electives include all 3XXX/4XXX level chemistry courses that are not specifically required for

	the major. (Credit not allowed for CHEM 3511 with CHEM 4511 or 4512, and CHEM 4699 may not be used to satisfy this requirement.)
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### **Business Option for B.S. in Chemistry**

Students in the B.S. Chemistry business track complete 15 credits of approved coursework covering the principles of accounting, economics, and management (Areas A, B, and C) and two electives (Area D). This allows students to take advanced coursework in these areas or to explore the legal, international, entrepreneurial, technological, or financial aspects of the business world.

Note that some of the elective courses (D) have prerequisites. Your choice of classes in Areas A, B, and C will influence the selection of elective classes available to you.

Some of the business courses in Areas C and D require junior or senior standing. To minimize conflicts in scheduling these courses, students are recommended to take other courses, especially those carrying social sciences credit, at the earliest possible time in their major's eight-term plan.

Students pursuing the business option typically take PSYC 1101 as part of the social sciences requirement and five classes in Areas A-D as outlined below. Note that PSYC 2220 and ECON 2106 also carry social sciences credit. Accordingly, these three classes, together with one U.S./Georgia history/constitution course, may be used to complete the 12-credit social sciences requirement. If students take ECON 2106 and/or PSYC 2220 to fulfill both social science credit and management elective credit, the student will need to take additional 3 or 6 credit hours of free electives to graduate.

**Students must complete one course from each of categories A-C and two from category D with a minimum grade of D.**

#### **A. ACCOUNTING**

*One class (3 h) chosen from:*

ACCT 2101 – Accounting I

MGT 3000 – Financial & Managerial Accounting

#### **B. ECONOMICS**

*One class (3 h)*

ECON 2106 – Principles of Microeconomics (*this class carries social sciences credit*)

#### **C. BUSINESS**

*One class (3 h) chosen from:*

PSYC 2220 – Industrial/Organizational Psychology (*this class carries social sciences credit*)

*NOTE: This class has PSYC 1101 as a prerequisite, which also carries social science credit.*

MGT 3101 – Organizational Behavior (jr/sr standing required)

MGT 3150 – Principles of Management (jr/sr standing required)

#### **D. TWO ELECTIVES**

*Two courses (3 h each) chosen from the following. Note that classes in the categories listed above serve as prerequisites for some of the elective classes. Accordingly, your choice of classes in fulfillment of the accounting, economics, and management requirements will influence the selection of available electives.*

*D.1. Classes with no additional prerequisites*

MGT 3078 – Finance & Investments (jr/sr standing required)

MGT 3300 – Marketing Management (this course serves as a prerequisite for classes listed below in Section D.5)

MGT 4191 – Entrepreneurship Forum

MGT 4192 – IMPACT Forum

MGT 4193 – Serv Lead Values Systems

MGT 4194 – Social Entrepreneurship

MGT 4610 – Law, Mgt & Economics

*D.2. Classes with ACCT 2101 as a prerequisite*

MGT 3062 – Financial Management

MGT 4026 – Fin Report & Analysis I

MGT 4028 – Fin Analy & Rpt – Tech Firms

*D.3. Classes with MGT 3000 as a prerequisite*

MGT 4015 – Adv Managerial Acct

MGT 4026 – Fin Report & Analysis I

MGT 4028 – Fin Analy & Rpt – Tech Firms

MGT 4030 – International Accounting

*D.4. Classes with MGT 3150 as a prerequisite*

MGT 3660 – International Business

MGT 4190 – Strategic Quality Mgt

*D.5. Classes with MGT 3300 as a prerequisite*

MGT 4303 – Personal Sell & Sales Mgt

MGT 4304 – Strategic Brand Mgt

MGT 4307 – Strategic Marketing

MGT 4335 – International Marketing

MGT 4670 – Entrepreneurship (*ACCT 2101 is an additional prerequisite for this class*)