

# Accounting, Business Analytics, CIS & Law

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## Accounting, Business Analytics, Computer Information Systems & Law (ACCT/BUAN/CIS/LAW)

Dr. Simon Tomoiaga  
Chair of the Department

The Department of Accounting, Business Analytics, Computer Information Systems, and Law (ACCT/BUAN/CIS/LAW) offers a broad choice of courses and three majors: Accounting, Business Analytics and Computer Information Systems. The department also offers courses in Business Law required for students in the O'Malley School of Business.

Accounting is often described as the language through which entities communicate financial information to various stakeholders. The program provides students with the skills that prepare them for accounting careers in business and not-for-profit organizations. Qualified students specifically interested in public accounting may pursue the B.S./MBA Professional Accounting Program. The program is registered with the State of New York as a Professional Accounting Program geared toward obtaining the Certified Public Accountant (CPA) license.

Using data, Business Analytics helps organizations evaluate their performance, gain operational insight, improve decision making and forecast market trends. It combines the study of analytical and statistical data analyses, data management, modeling and visualization. The underlying analytics tools and techniques emerge from a variety of disciplines such as operations research, statistics, computer science and traditional business fields. The Business Analytics major allows the student to develop the skills needed to pursue a data-related career in financial services, healthcare management, telecommunications, retail, media, or one of the many other industries where data analytics skills are in high demand.

The Computer Information Systems major emphasizes the use of computers in aiding business professionals to perform their functions in modern organizations. The program emphasizes important technical and applied skills and prepares students for a variety of careers in management information systems and technology.

Every major in the department should consult with the Chair concerning the fulfillment of the requirements for the major and the electives that will be most suitable for his/her particular professional and academic development.

## Accounting (ACCT)

Requirements for a **major** in Accounting:

LAW 304	Business Law II	3
ACCT 301	Intermediate Accounting I	3
ACCT 302	Intermediate Accounting II	3

ACCT 303	Cost Accounting	3
ACCT 350	Accounting Information Systems	3
ACCT 401	Auditing	3
ACCT 405	International and Advanced Issues in Accounting	3
ACCT 409	Federal Income Taxation I	3
Select one of the following courses:		3
ACCT 410	Federal Income Taxation II *	
ACCT 435	Accounting Field Study Internship	
Business Elective		3
<b>Total Credits</b>		<b>30</b>

\* Required for students who are continuing with the five-year B.S./M.B.A. Professional Accounting Program.

A minimum grade of C is necessary to receive major credit.

### Recommended course sequence for Accounting majors:

#### First Year

Fall	Credits	Spring	Credits
ACCT 201		3 ACCT 202	3
RELS 110 or ENGL 110		3 ENGL 110 or RELS 110	3
PHIL 201 or SOC 201		3 SOC 201 or PHIL 201	3
PSYC 203 or CIS 110		3 CIS 110 or PSYC 203	3
MATH 153		3 MATH 154	3
		<b>15</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
ECON 203		3 ECON 204	3
ENGL 211 or BUAN 227		3 BUAN 227 or ENGL 211	3
MKTG 201 or MGMT 201		3 MGMT 201 or MKTG 201	3
ACCT 301		3 ACCT 302	3
ACCT 303		3 ACCT 350	3
		<b>15</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
RELS Catholic Studies or ENGL Elective		3 ENGL Elective or RELS Catholic Studies	3
SCI Elective		3 SCI Elective	3
LAW 203		3 ECON 305	3
MGMT 307 or FIN 301		3 FIN 301 or MGMT 307	3
ACCT 401		3 ACCT 405	3

		Liberal Art Elective	3
	<b>15</b>		<b>18</b>
<b>Fourth Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
LAW 304		3 HIST Elective	3
ACCT 409		3 ACCT Elective/Internship*	3
RELS Global/Contemporary		3 MGMT 430 or 406	3
MGMT 406 or 430		3 Liberal Art Elective	3
Liberal Arts Elective		3 Business Elective	3
	<b>15</b>		<b>15</b>
<b>Total Credits: 123</b>			

\*Must be ACCT 410 for students pursuing the five year BS/MBA in Professional Accounting. Students interested in this program must consult with their academic advisor.

## Accounting Minor

Students enrolled in the O'Malley School of Business who wish to **minor** in Accounting must complete the following in addition to the core courses required of all students in Business:

ACCT 301	Intermediate Accounting I	3
Two of the following:		3
ACCT 302	Intermediate Accounting II	
ACCT 303	Cost Accounting	
ACCT 350	Accounting Information Systems	
ACCT 401	Auditing	
ACCT 409	Federal Income Taxation I	

A minimum grade of C is necessary to receive minor credit.

The Accounting program offers core courses required of all Business students. All students are required to take:

ACCT 201	Principles of Accounting I	3
ACCT 202	Principles of Accounting II	3

## Accounting Program Learning Goals

LG1. Demonstrate technical competency in core areas of accounting – financial accounting, managerial accounting, auditing, federal income taxation and business law.

LG2. Demonstrate competency in solving accounting problems through researching authoritative literature and applying analytical skills.

LG3. Demonstrate awareness of ethical issues in accounting.

LG4. Demonstrate proficiency in accounting technology.

## Business Analytics (BUAN)

Requirements for a **major** in Business Analytics:

BUAN/CIS 205	Introduction to Programming for Business Applications	3
BUAN/CIS 310	Business Data Management	3
BUAN 327	Regression & Forecasting Modeling for Business Applications	3
BUAN 410	Data Mining for Business Applications	3
BUAN 427	Artificial Intelligence and Machine Learning	3
Approved BUAN or CIS Electives		6
<b>Total Credits</b>		<b>21</b>

A minimum grade of C is necessary to receive major credit.

Students majoring in Business Analytics are encouraged to complete a business internship. Students can complete an approved internship experience for academic credit. Free Elective credit may be used to complete BUAN 375 Assimilating the Internship Experience in Business Analytics. Interested students must consult with the Assistant Dean for Career Development for guidance on the process of securing an appropriate internship and obtaining the required faculty sponsorship. Faculty supervisors will define appropriate academic activities in parallel to the work requirement in order to provide a complete internship experience. Credit bearing internships must be approved by the Assistant Dean of Career Development, Department Chair, and Dean.

### Recommended course sequence for Business Analytics majors:

#### First Year

Fall	Credits	Spring	Credits
RELS 110 or ENGL 110		3 ENGL 110 or RELS 110	3
ECON 203 or ACCT 201		3 ECON 204 or ACCT 202	3
MATH 153		3 MATH 154	3
PSYC 203 or CIS 110		3 CIS 110 or PSYC 203	3
PHIL 201 or SOC 201		3 SOC 201 or PHIL 201	3
		<b>15</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
ACCT 201 or ECON 203		3 ACCT 202 or ECON 204	3
MKTG 201 or MGMT 201		3 MGMT 201 or MKTG 201	3
ENGL 211 or BUAN 227		3 BUAN 227 or ENGL 211	3
SCI Elective or BUAN/CIS 205		3 BUAN/CIS 205 or SCI Elective	3
LAW 203 or HIST Elective		3 HIST Elective or Law 203	3
		<b>15</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
BUAN/CIS 310		3 BUAN 327	3

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ENGL Elective or RELS Catholic Studies	3 BUAN 410 (Or BUAN Elective)	3
ECON 305	3 RELS Catholic Studies or ENGL Elective	3
MGMT 307 or FIN 301	3 FIN 301 or MGMT 307	3
Free Elective or BUAN Elective	3 SCI Elective	3
	<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
BUAN 427		3 BUAN Elective or BUAN 410	3
BUAN Elective or Free Elective		3 Free Elective or BUAN Elective	3
MGMT 406 or 430		3 MGMT 430 or 406	3
RELS Global/Contemporary		3 Liberal Art Electives	6
Liberal Arts Elective		3	
	<b>15</b>		<b>15</b>

**Total Credits: 120**

## Business Analytics Minor

Students enrolled in the O'Malley School of Business who wish to **minor** in Business Analytics must complete the following in addition to the core courses required of all students in Business:

BUAN/CIS 205	Introduction to Programming for Business Applications	3
BUAN/CIS 310	Business Data Management	3
BUAN 410	Data Mining for Business Applications	3
or BUAN 427	Artificial Intelligence and Machine Learning	3
Approved BUAN or CIS Elective		3

A minimum grade of C is necessary to receive minor credit.

The Business Analytics program offers core courses required of all Business students. All students are required to take:

BUAN 227	Business Statistics	3
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## Business Analytics Program Learning Goals

LG1. Demonstrate technical competency in core areas of Business Analytics: acquire, repurpose, manipulate, visualize and analyze data.

LG2. Demonstrate proficiency in the high-level programming language Python.

LG3. Understand how and when to apply Machine Learning Models to Business Analytics problems.

LG4. Show awareness of emerging issues in Business Analytics, such as privacy, blockchain, and cloud computing.

## Computer Information Systems (CIS)

Requirements for a **major** in Computer Information Systems:

CIS 201 or CIS 211	Computer Hardware & Software System Administration and Cloud Computing for Business Applications	3
CIS/BUAN 205	Introduction to Programming for Business Applications	3
CIS/BUAN 310	Business Data and Information Management	3
CIS 326	Telecommunication Networks for Business Applications	3
CIS 431	Analysis, Design, and Implementation of Information Systems	3
Approved CIS or BUAN Electives		6
<b>Total Credits</b>		<b>21</b>

A minimum grade of C is necessary to receive major credit.

Students majoring in Computer Information Systems are encouraged to complete a business internship. Students can complete an approved internship experience for academic credit. Free or Business Elective credit may be used to complete CIS 375 Assimilating the Internship Experience in Computer Information Systems. Interested students must consult with the Assistant Dean for Career Development for guidance on the process of securing an appropriate internship and obtaining the required faculty sponsorship. Faculty supervisors will define appropriate academic activities in parallel to the work requirement in order to provide a complete internship experience. Credit bearing internships must be approved by the Assistant Dean for Career Development, Department Chair, and Dean.

### Recommended course sequence for Computer Information Systems (CIS) majors:

#### First Year

Fall	Credits	Spring	Credits
ECON 203 or ACCT 201	3	ECON 204 or ACCT 202	3
RELS 110 or ENGL 110	3	ENGL 110 or RELS 110	3
PHIL 201 or SOC 201	3	SOC 201 or PHIL 201	3
PSYC 203 or CIS 110	3	CIS 110 or PSYC 203	3
MATH 153	3	MATH 154	3
		<b>15</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
ACCT 201 or ECON 203	3	ACCT 202 or ECON 204	3
ENGL 211 or BUAN 227	3	BUAN 227 or ENGL 211	3
MKTG 201 or MGMT 201	3	MGMT 201 or MKTG 201	3
HIST Elective or Law 203	3	CIS/BUAN 205	3
CIS 201 or 211	3	LAW 203 or HIST Elective	3
		<b>15</b>	<b>15</b>

**Third Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MGMT 307 or FIN 301		3 FIN 301 or MGMT 307	3
ENGL Elective or RELS Catholic Studies		3 RELS Catholic Studies or ENGL Elective	3
Free Elective		3 Free Elective	3
ECON 305		3 CIS 310	3
CIS 326		3 SCI Elective	3
	<b>15</b>		<b>15</b>

**Fourth Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
SCI Elective		3 CIS 431	3
CIS or BUAN Elective		3 CIS or BUAN Elective	3
MGMT 406 or 430		3 MGMT 430 or 406	3
RELS Global/Contemporary		3 Liberal Arts Elective	6
Liberal Arts Elective		3	
	<b>15</b>		<b>15</b>

**Total Credits: 120****Computer Information Systems (CIS) Minor**

Students enrolled in the O'Malley School of Business who wish to minor in Computer Information Systems must complete the following in addition to the core courses required of all students in Business:

CIS 201 or CIS 211	Computer Hardware & Software System Administration and Cloud Computing for Business Applications	3
CIS/BUAN 205	Introduction to Programming for Business Applications	3
CIS/BUAN 310 or CIS 326	Business Data and Information Management Telecommunication Networks for Business Applications	3
<b>Total Credits</b>		<b>9</b>

A minimum grade of C is necessary to receive minor credit.

The Computer Information Systems program offers core courses required of all Business students. All students are required to take:

CIS 110	Introduction to Information Systems	3
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**Computer Information Systems Learning Goals**

LG1. Demonstrate proficiency utilizing a Database Management System (DBMS) for storing, querying and modifying data.

LG2. Demonstrate proficiency in the high-level programming language Python.

LG3. Understand how computers are interconnected and managed including the associated networking technology.

LG4. Understand how information systems are designed, developed and implemented.