

# INFORMATION TECHNOLOGY, BA

The Department of Computer Science and Information Technology offers three majors in Computer Science, Information Technology, and Data Analytics. A comprehensive range of course are taught in Cyber Security and Information Assurance, as well as general technology and computer literacy. All courses presented for the major and minor must be coordinated with a departmental advisor in accordance with curriculum check sheets and must be passed with a grade of C- or higher.

All students considering a major within the Department of Computer Science and Information Technology are highly encouraged to discuss their academic plans with an advisor within the department at their earliest opportunity, even while still working with admissions or general advising. Everyone is welcome to initiate a conversation with a CST advisor at any time.

A minimum of 15 credit hours of CST coursework must be completed at Roosevelt University to earn a CST major.

Because of the rapidly changing nature of this field of study, computing courses taken more than eight years ago cannot be counted towards degree requirements unless the student has been continuously registered since the time the course was taken (excluding summers). A double major among any of the CST majors is not offered because of the aligned nature of these degree programs. For additional information, please view the Department of Computer Science and Information Technology website (<http://cs.roosevelt.edu>).

The Information Technology degree covers the tools, techniques and technologies of modern information, data, and computing infrastructure from office software to network design and infrastructure. Student have a significant ability to tailor the degree to fit their own interest and to create their own area of concentration. This degree prepares students for careers in information technology oversight, design and management, as well as enterprise applications, servers, and systems design, integration and management.

## Requirements

- Total of 41 credit hours in CST required for the BA in Information Technology.
- At least 15 credit hours of credit in the computer science major must be taken at Roosevelt.
- A grade of C- or higher is required for all courses in the major, with an overall GPA of at least 2.0

Core		
CST 150	COMPUTER SCIENCE I	4
CST 246	DATA COMMUNICATIONS	3
CST 250	COMPUTER SCIENCE II	4
CST 270	SYSTEMS ANALYSIS AND DESIGN	3
CST 318	INTRODUCTION TO UNIX	3
CST 101	BEYOND PC ESSENTIALS	3
or CST 115	DIGITAL MEDIACRAFT, A&S	
or CST 100	ESSENTIAL COMPUTER SKILLS	
CST 333	DATABASE SYSTEMS	3

CST 368	INTERNET SECURITY	3
<b>Electives</b>		
Two 200+ level CST courses		6
Three 300+ level CST courses		9

### Optional Minor for the BA in Information Technology; Business, Economics, or Math are recommended

See the relevant section of the catalog for required courses for any chosen minor.

### General Education, University Writing Requirement, and Electives

Courses to total 120	79
Total Credit Hours	120

## Required Math Course

MATH 217	ELEMENTARY STATISTICS	3
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## General Education Requirements

Code	Title	Credit Hours
<b>Academic Communities of Practice</b>		
ACP 101	FIRST YEAR SEMINAR <sup>1</sup>	3
ACP 110	PRIMARY TEXTS	3
ACP 250	FOUNDATIONS FOR CHANGE	3
<b>English Composition <sup>2</sup></b>		
ENG 101	COMPOSITION I: CRITICAL READING & WRITING	3
ENG 102	COMPOSITION II: INTRODUCTION TO ACADEMIC RESEARCH	3
<b>Humanities</b>		
Select 9 credits from the following subject areas: African-American Studies, Art History, English (excluding ENG 101 and ENG 102), History, Languages, Music, Philosophy, Theatre, Speech and Women's and Gender Studies		9
<b>Mathematics</b>		
MATH 110	QUANTITATIVE LITERACY (or above) <sup>3</sup>	3
<b>Non-Western requirement</b>		
Non-Western course (can be used for Humanities or Social Sciences general education requirements)		3
<b>RU mission-related course <sup>2</sup></b>		
LIBS 201	WRITING SOCIAL JUSTICE	3
<b>Science</b>		
One biological science and one physical science required (at least one must be a four-hour lab (not applicable for science majors)		7-8
<b>Social Sciences</b>		
Select 9 credits from the following subject areas: African-American Studies, Anthropology, Economics, History, Journalism, Philosophy, Political Science, Psychology, Sociology and Women's and Gender Studies		9
Total Credit Hours		49-50

<sup>1</sup> Required for students who enter RU with fewer than 12 credit hours

<sup>2</sup> Minimum grade of C- required

<sup>3</sup> Math, Computer Science & Technology, and Science majors have different requirements—see advisor

These quantitative requirements also apply to degrees in the College of Arts and Sciences:

- Students may apply no more than 60 credit hours of 100-level courses toward the degree.
- Students must apply no fewer than 60 credit hours of 200- and 300-level courses toward the degree.
- Students must have at least 18 credit hours (of the 60 credit hours above) at the 300 level.
- Students may transfer in no more than 66 credit hours from community colleges.
- Students must take their final 30 hours at Roosevelt University. Note that some majors have additional requirements for RU hours.
- Students must have a grade point average of 2.0 or higher to graduate. Note that some majors have additional GPA requirements.
- Students must have a minimum of 90 hours in Arts and Sciences.
- Students may apply no more than 51 hours in the major (BA) or 57 hours in the major (BS)

Your degree map is a general guide suggesting courses to complete each term on the academic pathway to your degree. It is based on the most current scheduling information from your academic program. Your program's degree map is reviewed annually and updated as schedules change (although you retain the same course requirements as long as you are continuously enrolled in your degree program).

Always work closely with your academic advisor to understand curriculum requirements and scheduling, as each student's academic plan can look slightly different.

### Year 1

Fall	Credit Hours Spring	Credit Hours
ACP 101	3 ACP 110	3
ENG 101	3 ENG 102	3
CST 101 or 115	3 CST 250	4
CST 150 (Math placement required)	4 BIOL 111 or 112 <sup>5</sup>	4
Social Science #1	3 Social Science #2	3
	16	17

### Year 2

Fall	Credit Hours Spring	Credit Hours
ACP 250 or LIBS 201	3 LIBS 201 or ACP 250	3
CST 246	3 CST 270	3
Physical Science <sup>5</sup>	3 CST 2XX or CST 3XX <sup>2,3</sup>	3
MATH 217	3 Humanities #2	3
Humanities #1	3 Social Science #3	3
	15	15

### Year 3

Fall	Credit Hours Spring	Credit Hours
CST 318	3 CST 270	3
CST 333	3 CST 3XX <sup>3</sup>	3
CST 2XX or CST 3XX <sup>2,3</sup>	3 CST 3XX <sup>3</sup>	3
Humanities #3	3 General Elective <sup>1</sup>	3

General Elective <sup>1</sup>	3 General Elective <sup>1</sup>	3
	15	15

### Year 4

Fall	Credit Hours Spring	Credit Hours
CST 368	3 General Elective <sup>1</sup>	3
CST 3XX <sup>3</sup>	3 General Elective <sup>1</sup>	3
Non-Western Studies Course <sup>4</sup>	3 General Elective <sup>1</sup>	3
General Elective <sup>1</sup>	3 General Elective <sup>1</sup>	3
General Elective <sup>1</sup>	3	
	15	12

Total Credit Hours 120

<sup>1</sup> Or course towards an optional Minor.

<sup>2</sup> Any course at the 200 level within the discipline.

<sup>3</sup> Any course at the 300 level within the discipline.

<sup>4</sup> This requirement can be fulfilled by other requirements.

<sup>5</sup> One Natural Science course must have a lab.