



# BACHELOR OF SCIENCE IN FINANCIAL TECHNOLOGY (FinTech)

## September 2020

The Bachelor of Science in FinTech is a 120-credit program includes traditional finance coursework, but also provides an in-depth knowledge and understanding of the theories and evolution of FinTech, data-driven financial modeling, financial data mining and machine learning, financial data analytics, and new innovations in the financial sector, including AI, blockchain, bitcoin, cloud computing, machine learning, IoT, crowd funding, P2P lending, etc. The primary goal of the program is to develop students who have the necessary skills and knowledge to pursue competitive professional and academic careers.

### First Year

#### First Semester

		<b>Credits</b>
<b>ACCT 115</b>	Fundamentals of Financial Accounting	<b>3</b>
<b>CS 103</b>	Computer Science with Business Problems <i>(GER)</i>	<b>3</b>
<b>HUM 101</b>	English Composition: Writing, Speaking, Thinking I <i>(GER)</i>	<b>3</b>
<b>MATH 135</b>	Calculus for Business <i>(GER)</i> <i>(pre-req: MATH 107 or Placement exam)</i>	<b>3</b>
<b>MGMT 190</b>	Introduction to Business	<b>3</b>
<b>FRSH SEM</b>	First-Year Seminar <i>(required only of FIRST TIME FRESHMEN)</i>	<b>0</b>
<b>Term Credits</b>		<b>15</b>

#### Second Semester

<b>CS113</b>	Introduction to Computer Science I	<b>3</b>
<b>MGMT 116</b>	Quantitative Analysis Appl Bus with Lab <i>(GER)</i>	<b>4</b>
<b>ECON 266</b>	Macroeconomics	<b>3</b>
<b>HUM 102</b>	English Composition: Writing, Speaking, Thinking II <i>(GER)</i>	<b>3</b>
<b>MGMT 290</b>	Business Law I	<b>3</b>
<b>Term Credits</b>		<b>16</b>

### Second Year

#### First Semester

		<b>Credits</b>
<b>MIS 245</b>	Introduction to Management Information Systems	<b>3</b>
<b>ECON 265</b>	Microeconomics <i>(pre-req: MATH 135)</i>	<b>3</b>

<b>MGMT 216</b>	Business Data Analytics ( <i>pre-req: MGMT 116 or MATH 105</i> )	<b>3</b>
	History and Humanities 200 level ( <i>GER</i> )	<b>3</b>
	Natural Science ( <i>GER</i> )	<b>3</b>
	<b>Term Credits</b>	<b>15</b>

### Second Semester

<b>FIN 315</b>	Fundamentals of Corporate Finance	<b>3</b>
<b>MRKT 330</b>	Principles of Marketing ( <i>pre-req: MGMT 190</i> )	<b>3</b>
<b>OM 375</b>	Management Science ( <i>pre-req: MGMT 190</i> )	<b>3</b>
<b>CS 114</b>	Introduction to Computer Science II	<b>3</b>
	Natural Science w/Lab ( <i>GER</i> )	<b>4</b>
	<b>Term Credits</b>	<b>16</b>

## Third Year

### First Semester

<b>FIN 218</b>	Financial Markets and Institutions	<b>3</b>
<b>HRM 301</b>	Organizational Behavior ( <i>GER</i> )	<b>3</b>
<b>FIN 310</b>	Data Driven Financial Modelling	<b>3</b>
<b>ENTR 320</b>	Financing New Venture	<b>3</b>
<b>MGMT 399</b>	Career Planning and Major Field Test	<b>1</b>
	Free Elective	<b>3</b>
	<b>Term Credits</b>	<b>16</b>

### Second Semester

		<b>Credits</b>
<b>CPT 373</b>	Web App Development for Mobile	<b>3</b>
<b>MIS 385</b>	Database Systems for Managers ( <i>pre-req: CS 103, MIS 245</i> )	<b>3</b>
<b>FIN 320</b>	Financial Data Analytics	<b>3</b>
	History and Humanities 300+ level ( <i>GER</i> )	<b>3</b>
<b>FIN 306</b>	Blockchain Technology for Business	<b>3</b>
	<b>Term Credits</b>	<b>15</b>

## Fourth Year

### First Semester

<b>FIN 430</b>	Options and Futures Markets	<b>3</b>
	History and Humanities 300+ level ( <i>GER</i> )	<b>3</b>
<b>FIN 417</b>	Investments Management	<b>3</b>
<b>FIN 410</b>	Data Mining and Machine Learning	<b>3</b>

**BUSINESS WITH THE POWER OF TECHNOLOGY**

Free Elective

**Term Credits** 3  
**15**

Second Semester

	Free Elective	3
<b>MGMT 480</b>	Managing Technology and Innovation ( <i>pre-req: Junior standing</i> )	3
<b>MGMT 416</b>	Artificial Intelligence for Business	3
	Humanities and Social Sciences Senior Seminar ( <i>GER</i> )	3
	<b>Term Credits</b>	<b>12</b>

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**Total Credits 120**

