

American Bachelor Degree

Concentration: Information Technology

Academic Year: 2024-2025

Area of Study: Science, Mathematics & Technology

GENERAL EDUCATION		
Communication ®		
English Composition I * ®		3
English Composition II * ®		3
Diversity: Equity, Inclusion & Social Justice ®		
Intro to LGBTQ+ Studies *		3
Intro to Race, Class & Gender *		3
Sex and Gender in Global Perspective *		3
Mathematics (and Quantitative Reasoning) ®		
Calculus * ®		3
College Algebra * ®		3
Statistics I * ®		3
Natural Sciences (and Scientific Reasoning) ®		
Environmental Crisis & Global Sustainability	3	
Human Biology *		3
Introduction to Genetics *		3
U.S. History & Civic Engagement ®		
American Government & Politics *		3
The American Presidency *		3
U.S. History and Civil Rights *		3
United States History (Since 1865) *		3
Social Sciences		
Cultural Anthropology * WHGA		3
Introduction to Political Science *		3
Introduction to Sociology *		3
Microeconomics * ®		3
The Arts		
Art of the Western World *		3
Digital Photography * ®		3
Introduction to Painting *		3
Humanities		
Introduction to Literature *		3
Introduction to Philosophy *		3
Principles of Ethics *		3
World History & Global Awareness		
History of World Religions *		3
World Geography *		3
World History *		3
World Languages		
Czech *		3
Spanish *		3
<i>min. required GenEd credits:</i>		30
<i>min. 7 GenEd areas must be covered</i>		

REQUIRED COURSES	
	Cr.
Computers and Applications	3
General Psychology * OR Reason & Argument *	3
Introduction to University Studies	1
Algorithms (<i>Discrete Mathematics</i>)	3
Computer Organization & Architecture *	3
Discrete Mathematics * (<i>College Algebra</i>)	3
Information Security Implementation & Processing ^ (<i>Network Administration</i>)	3
Knowledge Management	3
Management Information Systems ^ (<i>Computers and Applications</i>)	3
Network Administration	3
Principles of Management	3
Project Management ^ (<i>Management Information Systems</i>)	3
Social Professional & Ethical Issues in Computing * ^	3
Systems Administration ^ (<i>Network Administration</i>)	3
Web Design	3

REQUIRED COURSES	
Cyber Crime & Computer Forensics ^	3
Database Systems ^ (<i>online</i>)	4
Human-Computer Interaction * ^	3
Introduction to Object-Oriented Programming: Python (<i>Algorithms</i>)	3
Operating Systems ^	3
System Analysis & Design * ^	3
Web Systems Development ^ (<i>Database Systems</i>)	3
<i>IT Senior Project Proposal</i> * ^	2
<i>IT Senior Project</i> ^	3

- UNYP course
- SUNY Empire course

124 credits required for graduation: **92 UNYP** + **32 SUNY Empire** credits

^ - advanced level course. A minimum of **45 advanced-level credits** is required for graduation.

* - liberal course. A minimum of **62 liberal credits** is required for graduation.

® - mandatory General Education course for your concentration

Please be informed that this is not an exhaustive list of courses. New courses can be offered, especially as electives.

Make sure to consult each semester's schedule and your academic advisor to find out all the courses offered each semester.

ELECTIVE COURSES	
Concentration electives (liberal):	
	Cr.
Academic Writing * ^	3
AI and the Society *	3
Consumer Behaviour *	3
Intercultural Communication *	3
Psychology of Technology *	3
Statistics II * ^	3
<i>(!) other elective courses may be offered, each semester</i>	

Out-of-concentration electives:	
Honors Seminar (requires GPA 3.2 or above) * ^	3
Psychology of Technology *	3
Public Speaking *	3
Social Psychology *	3

<i>students must choose 1 SUNY Empire elective course:</i>	
Advanced Computing Models: Virtualization Cloud & Mobile C	3
Business Continuity Planning & Disaster Recovery ^ (<i>Principles</i>)	3
Data Analytics ^	3
Intermediate Python ^ (<i>Introduction to Python</i>)	3
Leadership ^	4
<i>(!) other elective courses may be offered, each semester</i>	
<i>(!) you may also choose other <u>online</u> SUNY Empire electives</i>	



Courses in brackets () are pre-requisites.