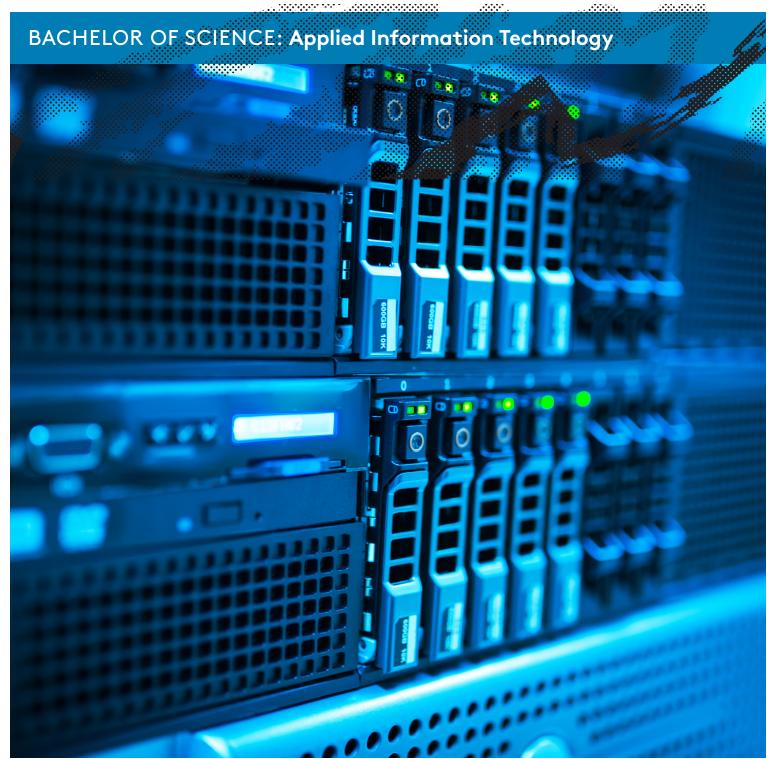
GUIDE TO GRADUATION







B.S. in Applied Information Technology Academic Year 2023-24

The **Yale Gordon College of Arts and Sciences** is committed to providing the guidance and support you need to complete your program in a timely manner. This Guide to Graduation provides the in-depth information necessary to assist you in planning your undergraduate academic career. It contains contact information, important resources, a program checklist and a suggested four-year plan of study.

While this information will be helpful to you, you should also contact your academic adviser. You adviser is there to assist you in planning your program plan of study and to answer your questions. All new students are required to meet with an adviser prior to registering for their first semester to receive a personalized program checklist.

The University of Baltimore recognizes that consistent and timely academic advising is strongly related to student success. To enhance the services we provide to our students and to increase the likeliness for success and on-time degree completion, UBalt implemented mandatory milestone advising for all new undergraduate students beginning in fall 2017.

Milestone advising will be anchored by three specific touch points and aligned with the personal, professional and academic goals of students at those points.

45 Credits: Advisers will work with students to further explore the declared major and connect students with support services, clubs and other campus groups to enhance the opportunity to be involved in the UBalt community.

60 Credits: Advisers will work with students to prepare for internships, Global Field Studies and other experiential learning opportunities. Students will also be re-introduced to the support services offered by the Career and Internship Center.

90 Credits: Advisers will focus on the final steps to graduation and the options for post-bachelor's degree completion. Students will learn more about the graduate degree programs at UBalt that fit with their goals.

Students must meet with their advisers to discuss their next steps for registration, course scheduling and other key academic topics before they register for classes. Advisers will release the milestone advising service indicator on students' accounts at the conclusion of the advising meetings.

Your academic adviser will assist you throughout your time at UBalt at any credit point; however, it is ultimately your responsibility to complete the degree requirements and acquaint yourself with the University's academic policies.

CONTACT INFO:

Yale Gordon College of Arts and Sciences Dean's Office Academic Center, Room 249 410.837.5351 ubalt.edu/ait

RESOURCES:

Office of Records and Registration ubalt.edu/records

Office of Financial Aid ubalt.edu/financialaid

Office of the Bursar <u>ubalt.edu/bursar</u>

Academic Success ubalt.edu/success

Career and Internship Center <u>ubalt.edu/careercenter</u>

Call to schedule your advising appointment today.

B.S. IN APPLIED INFORMATION TECHNOLOGY PROGRAM CHECKLIST

120 credits required to graduate; note the grades required for each type of requirement below

Students entering in fall 2016 and later	• Complete with a grade of C- o	r higher except	where noted.
Upper-division courses are 300 or 400 level.	See course lists for each area		
Arts and Humanities Area (AH, AHE) – 6 credits Complete one course from two separate AH disciplines.		••••••	
Course Title	Term	Grade	Credit Hours
AH1:			
AH2:			
Upper Division Ethics Area (UETH) – 3 credits Complete one course.			
Course Title	Term	Grade	Credit Hours
*UETH:			
*(upper division, C or better)			
Social and Behavioral Sciences Area (SBS) – 6 cre Complete one course from two separate SBS disciplines.	edits		
Course Title	Term	Grade	Credit Hours
SBS1:			
SBS2:			
Biological and Physical Sciences Area (BPS, BPSL Complete two courses, one of which must be a laboratory course.	.) –7 credits		
Course Title	Term	Grade	Credit Hours
BPS:			
BPSL:			

AITC 490: Practicum in Information Technology

Mathematics Area (MA) – 3 credits Complete one course. Check your major requirements for recom	nmendation. Note: placement requ	ired prior to reg	istration
☐ Complete Math Placement: RSVP at <u>ubalt.ed</u>	lu/placement		
Course Title	Term	Grade	Credit Hours
MA:			
English Composition Area (COMP, UCOMP) – 6 Complete two composition courses, one of which must be uppe		d prior to regist	ration
Course Title	Term	Grade	Credit Hours
COMP:			
*UCOMP:(upper division, C or better)			
General Education Electives (ELECGE) – 7+ cred Complete as many general education courses as needed to read			
Course Title	Term	Grade	Credit Hours
ELECGE:			
ELECGE:			
ELECGE:			
Students with an A.A. or A.S. degree from a Maryland public ins	titution complete only the AHE and	d UCOMP requir	ements.
University of Baltimore Graduation Rec	quirements		
Students entering in fall 2017 and later	Consult with your academic	adviser on the I	oest course
 For General Education GR courses, earn a grade of C- or higher. 	selections for your program.See <u>lists of approved courses</u>		
 For GR courses within your academic program, follow the grade requirements of the program. 			
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Information Literacy (IL)	Term	Grade	Credit Hours
GAME 324: Designing for Humans			
Technological Fluency (TF)	Term	Grade	Credit Hours
AITC 151: Computer Programming I			
Oral Communication (OC)	Term	Grade	Credit Hours

Global Awareness and Diverse Perspectives (GD)	Term	Grade	Credit Hours	
AITC 332: Fundamentals of Computer Security				
Capstone Experience	Term	Grade	Credit Hours	
AITC 490: Practicum in Information Technology				

B.S. in Applied Information Technology Requirements – 57-63 credits

- Students entering in fall 2017 and later
- Ensure you have met any prerequisites before registering for courses.
- Complete with a grade of C or higher.
- Consult with your adviser to determine which course to take when.

> Core Program Courses – 33 credits

Course	Term	Grade	Credit Hours
AITC 151: Computer Programming I			
AITC 210: Computer Hardware/Software Support			
AITC 212: Introduction to Linux			
AITC 251: Computer Programming II			
AITC 253: Client-Side Web Programming			
AITC 310: Fundamentals of Computer Networks			
AITC 332: Fundamentals of Computer Security			
AITC 356: Database Systems			
AITC 461: IT Project Management			
AITC 490: Capstone in Information Technology			
GAME 324: Designing for Humans			
> Math Requirements – 6 credits			
 MATH 303: Applied Probability and Statistics 			
MATH 321: Mathematical Structures for Information Tech	nology		

Choose either the General Track (57 credits total) or total):			
General Track – 18 credits			
Choose one:			
☐ AITC 312: Administrating and Supporting a Network Operating System			
☐ AITC 317: Virtualization and Cloud Computing			
Course	Term	Grade	Credit Hours
Choose one:			
☐ AITC 351: Object-Oriented Programming			
☐ AITC 352: Advanced Scripting and Task Automation			
Choose four AITC courses at the 400-level:			
1			
2			
3			
4			
Application Development Concentration – 24 credits			
Course	Term	Grade	Credit Hours
AITC 317: Virtualization and Cloud Computing			-
AITC 351: Object-Oriented Programming			-
AITC 451: Object-Oriented Analysis and Design			
AITC 453: Advanced Web Development			
AITC 456: Advanced Database Systems			
AITC 457: Mobile Applications Programming			
AITC 458: Software Security			-
AITC 459: Open Source Software Development			

Cyber Security Concentration – 24 credits

Course	Term	Grade	Credit Hours
AITC 312: Administering and Supporting a Network Operating	Syst		
AITC 352: Advanced Scripting and Task Automation			
AITC 416: Wireless Networking: Applications and Security			
AITC 431: Applied Cryptography			
AITC 432: Information Assurance			
Course	Term	Grade	Credit Hours
• AITC 433: Network Security			
• AITC 434: Web and Database Security			
• AITC 435: Digital Forensics for Information Technology			
> General Electives Complete as many course as necessary from any discipline to fulfill your 120-c	redit requirement to	graduate.	
Course Name and Number	Term	Grade	Credit Hours
	Term	Grade	Credit Hours
	Term	Grade 	Credit Hours
	Term	Grade	Credit Hours
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	Term	Grade	Credit Hours

EXAMPLE PLANS OF STUDY

On the following pages are example two- and four-year plans of study for the B.S. in Applied Information Technology. They are meant to act as a guide for either two years of study after transferring from another institution or four years of study after entering as a freshman.

They need not be followed in the same order for every student. Part-time students and those students transferring in credits from another university or college will need to adjust their plan accordingly. These plans do not account for courses taken during summer sessions. Students should consult with their adviser each semester prior to registration.

2-Year Plan: Concentration in Application Development

2-Year Plan: Concentration in Cyber Security

2-Year Plan: General Applied Information Technology

4-Year Plan: Concentration in Application Development

4-Year Plan: Concentration in Cyber Security

4-Year Plan: General Applied Information Technology

2-Year Plan: Applied Information Technology, B.S.

Concentration in Application Development

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1st Semester		2nd Ser	nester
AITC 310	3	AITC 317	3
AITC 332	3	AITC 324	3
AITC 351	3	AITC 453	3
AITC 356	3	MATH 321	3
WRIT 300	3	PHIL 301	3
	15		15

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3rd Semester		4	th Semester
AITC 451	3	AITC 456	3
AITC 457	3	AITC 458	3
AITC 461	3	AITC 459	3
MATH 303	3	AITC 490	3
Elective	3	Elective	3
	15		15
	• • • • • • • • • • • • • • • • • • • •	Total · · · · · · · · · · · · · · · · · · ·	
30		60	30

2-Year Plan: Applied Information Technology, B.S. Concentration in Cyber Security

	Year 1		•
1st Semester		2nd Semester	
AITC 310 3		AITC 312	3
AITC 324 3		AITC 416	3
AITC 332 3		AITC 352	3
AITC 356 3		MATH 321	3
WRIT 300 3		PHIL 301	3
15			15

	····· Yed	r 2 · · · · · · · · · · · · · · · · · ·	
3rd Semester		4th Se	emester
AITC 432	3	AITC 431	3
AITC 434	3	AITC 433	3
AITC 461	3	AITC 435	3
MATH 303	3	AITC 490	3
Elective	3	Elective	3
	15		15
	To	tal ·····	

2-Year Plan: Applied Information Technology, B.S. General Applied Information Technology Degree

	· Year 1		• • • •
1st Semester		2nd Semester	
AITC 310	3	AITC 312 or AITC 317	3
AITC 332	3	AITC 324	3
AITC 351 or AITC Elective	3	AITC 352 or AITC Elective	3
AITC 356	3	MATH 321	3
WRIT 300	3	PHIL 301	3
	15		15

•••••	····· Yed	ar 2 ·····	• • • • • • • • • • • • • • • • • • • •
3rd Semester		4th Semest	er
AITC Elective	3	AITC Elective	3
AITC or Other Elective	3	AITC or Other Elective	3
AITC 461	3	AITC 490	3
MATH 303	3	Elective	3
Elective	3	Elective	3
	15		15
	To:	tal ·····	
30	6	0 30	

4-Year Plan: Applied Information Technology, B.S. Concentration in Application Development

		ır 1 · · · · · · · · · · · · · · · · · ·	
1st Semester		2nd Semester	
COSC 151 (GR)	3	General Education	3
General Education	3	General Education	3
General Education	3	General Education	3
General Education/General Elective	3	General Education/General Elective	3
General Education/General Elective	3	General Education/General Elective	3
	15		15

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3rd Semester		4th Semester	
AITC 210	3	AITC 212	3
AITC 253	3	AITC 251	3
General Education	3	General Education	3
General Education/General Elective	3	General Education/General Elective	3
General Education/General Elective	3	General Education/General Elective	3
	15		15

5th Semester		6th Sem	ester
AITC 310	3	AITC 317	3
AITC 332	3	AITC 324	3
AITC 351	3	AITC 453	3
AITC 356	3	MATH 321	3
WRIT 300	3	PHIL 301	3
	15		15

7th Semester	8th Semester
AITC 451 3	AITC 456 3
AITC 457 3	AITC 458 3
AITC 461 3	AITC 459 3
MATH 303 3	AITC 490 3
Elective 3	Elective 3
15	15
60	Total

4-Year Plan: Applied Information Technology, B.S. Concentration in Cyber Security

60

1st Semester		2nd Semester	
COSC 151 (GR)	3	General Education	
General Education	3	General Education	
General Education	3	General Education	
General Education/General Elective	3	General Education/General Elective	
General Education/General Elective	3	General Education/General Elective	
	15		
	····· Yed	ar 2 ·····	
3rd Semester		4th Semester	
NTC 210	3	AITC 212	
NTC 253	3	AITC 251	
General Education	3	General Education	
General Education/General Elective	3	General Education/General Elective	
General Education/General Elective	3	General Education/General Elective	
	15		
	····· Yeo	ar 3 ·····	
5th Semester		6th Semester	
AITC 310	3	AITC 312	
NTC 324	3	AITC 416	
AITC 332	3	AITC 352	
AITC 356	3	MATH 321	
WRIT 300	3	PHIL 301	
	15		7
	····· Yed	ar 4 ·····	• • • • • • • • • • • • • • • • • • • •
7th Semester		8th Semester	
AITC 432	3	AITC 431	
AITC 434	3	AITC 433	
AITC 461	3	AITC 435	
1ATH 303	3	AITC 490	
Elective	3 15	Elective	

120

60

4-Year Plan: Applied Information Technology, B.S. General Applied Information Technology Degree

1st Semester COSC 151 (GR) General Education General Education/General Elective General Education/General Elective 3rd Semester AITC 210 AITC 253 General Education General Education General Education General Education	3 3 3 15 Yec	2nd Semester General Education General Education General Education General Education/General Elective General Education/General Elective 4th Semester AITC 212 AITC 251	3 3 3 15
General Education General Education General Education/General Elective General Education/General Elective 3rd Semester AITC 210 AITC 253 General Education General Education General Education	3 3 3 15 Yec	General Education General Education General Education/General Elective General Education/General Elective ar 2 4th Semester AITC 212 AITC 251	3 3 3 1!
General Education General Education/General Elective General Education/General Elective 3rd Semester AITC 210 AITC 253 General Education General Education General Education/General Elective	3 3 15 Yec	General Education General Education/General Elective General Education/General Elective ar 2 4th Semester AITC 212 AITC 251	; ; 1!
General Education/General Elective General Education/General Elective 3rd Semester AITC 210 AITC 253 General Education General Education/General Elective	3 3 15 Yec	General Education/General Elective General Education/General Elective ar 2 4th Semester AITC 212 AITC 251	: - 1
General Education/General Elective 3rd Semester AITC 210 AITC 253 General Education General Education/General Elective	3 15 Yec	General Education/General Elective ar 2 4th Semester AITC 212 AITC 251	<u>1</u>
3rd Semester AITC 210 AITC 253 General Education General Education/General Elective	75 Yec	AITC 212 AITC 251	
3rd Semester AITC 210 AITC 253 General Education General Education/General Elective	Yec	AITC 212 AITC 251	
3rd Semester AITC 210 AITC 253 General Education General Education/General Elective	3 3 3	AITC 212 AITC 251	;
AITC 210 AITC 253 General Education General Education/General Elective	3	AITC 212 AITC 251	
AITC 253 General Education General Education/General Elective	3	AITC 251	
General Education General Education/General Elective	3		:
General Education/General Elective			
	3	General Education	;
	J	General Education/General Elective	
General Education/General Elective	3	General Education/General Elective	
	15		1:
5th Semester		6th Semester	
AITC 310	3	AITC 312 or AITC 317	3
AITC 332	3	AITC 324	;
AITC 351 or AITC Elective	3	AITC 352 or AITC Elective	;
AITC 356	3	MATH 321	3
WRIT 300	<u>3</u>	PHIL 301	-
	15		1!
	······Yec		• • • • • • • • • • • • • • • • • • • •
7th Semester		8th Semester	
AITC Elective	3	AITC Elective	;
AITC or Other Elective	3	AITC or Other Elective	;
AITC 461	3	AITC 490	;
MATH 303	3	Elective	;
Elective	3	Elective	<u>;</u>
	15		1:
	To	tal ·····	• • • • • • • • • • • • • • • • • • • •