Dual Majors: CSCA - Computer Science B.A. & BUIS - Business Information Systems

NOTE: This "Eastern in 4" is a planning document only. Consult with your faculty advisor & use Degree Evaluation to obtain accurate assessment of progress towards your graduation.

Name:	Janet Smith	EasternID:	12345679	Date:	7/17/2024

Eastern in 4 Notes — Revised: 07/01/2024

A degree has GPA, Residency, Major, ELAC, Foreign Language, University Writing, and Upper-level requirements. Minimum of 120 credits are required to graduate. If you have open space, fill in with "Elective."

Major Specific Notes

CSC 210, CSC 231, and CSC 270 require a minimum grade of C. 300- or 400-level CSC courses: either a minimum grade of C in each course or a min. average GPA of 2.3 must be earned. Students can take CSC 230 or MAT 230 to fulfill the Discrete Structures requirement. Two from CSC 231, 270, 340; and CSC 450 meet Eastern's writing requirements and must be taken in residence.

ELAC Requirements

Courses in Minors and Second Majors may count towards ELAC Requirements. Check Degree Evaluation.

In	Course	Title	Requirement	Credits	Rec. Year	Prerequisite
		ELAC - Seminars & Foundationals				
X	MAT 243	Foundational Math	LACM	4	1st	3 to 5 Credits
X	ENG 100	Foundational Writing	LACW	3	1st	3 to 5 Credits
X	LAC 100	LAC 100	LAC 100	3	1st	Must take in first 15 credits
X	LAC 101	LAC 101	LAC 101	3	1st	Must take in first 15 credits
X	LAC 200	LAC 200 Seminar	LAC 200	3	2nd	
X	LAC 400	LAC 400 Seminar	LAC 400	3	4th	

			LA Area	LO	Credits	Year Taken	Prerequisites
		ELAC Disciplinary Perspectives Courses					
X	BIS 375	Ecommerce Cloud Apps	SS	CR	3		
X	ELAC02	ELAC 24 - Course 2	AH	CM	3		
X	ELAC03	ELAC 24 - Course 3	SS	ER	3		
X	ECO 201	Introductory Microeconomics	SS	CT	3		
X	BIS 379	Data Wrangling	SS	QL	3		
X	BIS 447	Business Intelligence	SM	QL	3		
X	BIS 442	Information Tech Project Mgmt	SS	CM	3		
X	ELAC08	ELAC 24 - Course 8	SM	ER	3		

Liberal Arts Areas (LAxx)			Learning Outcomes (LOxx)
1	LA Area - Arts Humanities (AH)	1	LO - Creativity (CR)
5	LA Area - Social Sciences (SS)	2	LO - Communication (CM)
2	LA Area - Science & Math (SM)	1	LO - Critical Thinking (CT)
	ELAC - Seminar & Foundationals Credits: 19	2	LO - Ethical Reasoning (ER)
	ELAC Disciplinary Perspectives Credits: 24	2	LO - Qunatative Literacy (QL)

Major Code: CSCA — CSCA - Computer Science B.A.

	Course	Title	Requirement	Credit	Elec.	Rec. Year	Prerequisite
		Common Core Requirements					
X	CSC 180	Fundamentals of Computing	Major	3		1st	
X	CSC 230	Discrete Math for CSC or Discrete	Major	3	CSC 230	2nd	MAT 155
X	CSC 210	Computer Science & Programming I	Major	3		1st	CSC 180
X	CSC 231	Computer Science & Programming II	Major	3		2nd	CSC 210
X	CSC 270	Data Structures	Major	3		2nd	CSC 231
X	CSC 445	Software Engineering	Major	3		4th	CSC 270
X	CSC 341	Database and Info Management	Major	3		3rd	CSC 270
X	CSC 450	Senior Research	Major	3		4th	Senior Standing
		Math: MAT 155/P OR MAT 195/243					
X	MAT 244	Calculus II with Technology	Major	4		2nd	MAT 243
X	MAT 243	Calculus I with Technology	Major	4 or 5	MAT 243	1st	Depends on selection
		CSC Principles					
X	CSC 231	Networking Fundamentals	Major	3	CSC 231	2nd	Depends on selection
X	CSC 320	Computer Organiz And Architect	Major	3			
X	CSC 335	Computer Algorithms	Major	3			
X	CSC 340	Program Lang And Translations	Major	3			
X	CSC 440	Operating Systems	Major	3		3rd	Depends on selection
		CSC Electives (12 Credits)					
		See department website for more options					
X	BIS 205	Information Management	Major	3	BIS 205	2nd	Depends on selection
X	BIS 305	Business Analytics	Major	3	BIS 305	2nd	Depends on selection
X	BIS 437	Rapid IT Development Mgmt	Major	3	BIS 437	3rd	Depends on selection
X	BIS 442	Information Tech Project Mgmt	Major	3	BIS 442	4th	Depends on selection

Major Code: BUIS — BUIS - Business Information Systems

	Course	Title	Requireme	Credit	Elec.	Rec. Year	Prerequisite
X	MAT 216	Stats for Eco and Bus or Stat Data	Major	3	MAT 216	2nd	LACM (Suggested BIS 205)
X	ECO 201	Principles of Microeconomics	Major	3		1st (Sprir	
X	CSC 210	Intro to Computing/Problem Solve	Major	3	CSC 210	1st	
X	ACC 201	Principles of Accounting I	Major	3		2nd	LACM
X	BUS 201	Principles of Management	Major/W2	3		1st	
X	BIS 205	Information Management	Major	3		1st (Sprir	LACM
X	BUS 225	Principles of Marketing	Major/W2	3		2nd	
X	FIN 245	Business Finance	Major	3		2nd	ACC 201, LACM
X	OSC 260	Operations Management	Major	3		2nd/3rd	MAT 216 or ECO 215
X	BIS 361	Business Information Systems	Major	3		2nd	BIS 205
X	BIS 370	Systems Analysis and Design	Major	3		2(Sp)/3(F	BIS 205
X	BIS 373	Bus. Database Mgmt. & SQL	Major	4		2nd	BIS 205
X	CSC 231	Visual Basic.net or Net-centric	Major	3	CSC 231	3rd (Fall)	LACM
X	BIS 375	Electronic Commerce	Major	3		3rd (Fall)	BIS 205
X	BIS 430	Enterprise Resource Planning	Major	3		4th (Fall)	BIS 370
X	BIS 461	Seminar on Information Systems	Major	3		4th (Sprir	BIS 370, BIS 373
X	BIS 490	Internship in BIS	Major/W2-	3		3rd(Sp)/4	GPA of 2.5 or higher
		Adv. Electives Choose 3 (9 crs) from:					
		ACC 420, BIS 305, 362, 379, 437, 447, 449;					
X	BIS 379	Data Wrangling	Major	3	BIS 379	3rd	
X	BIS 447	Bus Intelligence&Data Solution	Major	3	BIS 447	3rd	
X	BIS 449	Data Visualization	Major	3	BIS 449	4th (Sprir	

1st year Fall 2024			
Subj, Crs#	*Title*	*Requirement/s*	*Crs.*
MAT 243	Calculus I with Technolog	LACM	4
ENG 100	College Writing	LACW	3
LAC 100	LAC 100 Seminar	LAC 100	3
LAC 101	LAC 101 LAC Overview	LAC 101	1
CSC 180	Fundamentals of Computing	CSC Major	3
BUS 201	Principles of Management	BIS Major	3
	Total		17
1st year Spring 2025			
Subj, Crs#	*Title*	*Requirement/s*	*Crs.*
CSC 210	Computer Sci And Programm	Both Majors	3
ECO 201	Principles Of Microeconom	LASS:LOCT / Major	3
MAT 244	Calculus II with Technolo	Both Majors	4
ACC 201	Principles Of Accounting	BIS Major	3
BIS 205	Information Management	CSC Major	3
	Total		16
2nd year Fall 2025			
Subj, Crs#	*Title*	*Requirement/s*	*Crs.*
CSC 230	Discrete Math for Compute	CSC Major	3
CSC 231	Computer Sci And Program	Both Majors	3
MAT 216	Statistical Data Analysis	Both Majors	3
BIS 373	Business Database Managem	Both Majors	3
FIN 245	Business Finance	BIS Major	3
	Total		15
2nd year Spring 2026			
Subj, Crs#	*Title*	*Requirement/s*	*Crs.*
BIS 370	Systems Analysis and Desi	BIS Major	3
CSC 270	Data Structures	CSC Major	3
OSC 260	Operations Management	BIS Major	3
ELAC02	ELAC 24 - Course 2	ELAC	3
LAC 200	LAC 200 Seminar	LAC 200	3
	Total		15
3rd year Fall 2026			
Subj, Crs#	*Title*	*Requirement/s*	*Crs.*
BIS 305	Business Analytics	Both Majors	3
CSC 320	Computer Organiz And Arch	CSC Major	3
BIS 437	Rapid IT Development Mgmt	Both Majors	3
CSC 335	Computer Algorithms	CSC Major	3
BIS 379	Data Wrangling	SS, QL, Majors	3
	Total		15
3rd year Spring 2027			
Subj, Crs#	*Title*	*Requirement/s*	*Crs.*
BIS 449	Data Visualization	BIS Major	3
BIS 447	Bus Intelligence&Data Sol	SM, QL / BIS Major	3
BIS 442	Information Tech Project	SM, CT / Majors	3
CSC 340	Program Lang And Translat	CSC Major	3
CSC 341	Database And Info Managem	CSC Major	3
	Total		15
4th year Fall 2027			
Subj, Crs#	*Title*	*Requirement/s*	*Crs.*
BIS 375	Electronic Commerce	SS, CR / BIS Major	3
BUS 225	Principles Of Marketing	BIS Major	3
BIS 361	Business Information Syst	BIS Major	3
BIS 430	Enterprise Res Plan/E-Bus	BIS Major	3
ELAC08	ELAC 24 - Course 8	ELAC	3
ELAC03	ELAC 24 - Course 3	ELAC	3
	Total		18
4th year Spring 2028			
Subj, Crs#	*Title*	*Requirement/s*	*Crs.*
CSC 450	Senior Research	CSC Major	3
BIS 461	Seminar:Info Sys/Bus Stra	BIS Major	3
CSC 445	Software Engineering	CSC Major	3
CSC 440	Operating Systems	CSC Major	3
LAC 400	LAC 400 Seminar	LAC 400	3
	Total		15
Grand Credit Total (120 minimum)			**129**
Congratulations, Graduate!			
BIS 490	Internship in BIS	Major	3

Transfer Courses/Outside Credits (CLEP/DSST Tests)