

# Computer Science: Game Programming B.S. (Bachelor of Science)

FRESHMAN YEAR				SOPHOMORE YEAR				
Fall Semester			17 Credits Fall Semester		17 Credits			
ENGL 1100	Writing I.		(3)	CSC 1600	Introd	uction to Ele	ctronics(4)	
CSC 1500	1500 Computer Science I		(3)	CSC 2560	Systems Programming		ning(3)	
MATH 1300	Precalcul	Precalculus (if needed)		MATH 2300	Calcul	ıs I	(4)	
	LA&S Elective (LAB)		(4)	LA&S Elective (HAF)		<del>-</del> )(3)		
	LA&S Elective (CTW)		(3)		LA&S	Elective (AOI	M)(3)	
Spring Semester			Credits	Spring Semester			17 Credits	
ENGL 1200	L 1200 Writing II		(3)	CSC 1650 Digital Electronics			(4)	
CSC 1550	Computer Science II		(3)	CSC 3700	Algori	thms and Dat	ta Structures(3)	
CSC 1900	Discrete I	Discrete Math		MATH 2400	Calcul	ulus II(4)		
	LA&S Elective (HIST)		(3)	SPCH 1000	Introduction to Speech Communication(3)			
	LA&S Elective (HMN)		(3)	LA&S Elective (LIT)			(3)	
JUNIOR YEAR				SENIOR YEAR				
Fall Semester		16	Credits	Fall Semester		12 Credits		
CSC 2600	2600 Computer Organization		(4)	CSC 4210	Compi	uter Graphics	5(3)	
CSC 3200	. 5		,	CSC 3650		-	g(3)	
MATH 1800	TH 1800 Business Statistics		(3)	GAME 2200	Introd	oduction to Game Art(		
CSC 3011	Data Modeling and Database Design		(3)	CSC 3xxx/4xxx	CSC El	Elective(3)		
GAME 2000 Eleme		of Game Design	(3)					
		_		Spring Semester			10 Credits	
Spring Semester		16	Credits	CSC 4400	Softwa	tware Engineering		
		cessors	(4)	CSC 4102	Ethica	hical Issues in Computer Science(1)		
CSC 3100	•		(3)	CSC 3xxx/4xxx	CSC El	Elective(3)		
MATH 2600			(3)	Free Elective		(3)		
CSC 3560	<u> </u>						-	
GAME 3000		sign Workshop	<b>-</b> ,					
						Suggested	Computer Science Electives:	
		Option B requirements fulfilled by completion of MATH 1800, 2300,	Global Diversity Area  Two courses taken must meet the Global Diversity requirement: GDAN course + (GDC or GDCN course) OR GDCN course + (GDA or GDAN course) These courses are allowed to satisfy t requirement and another requirement at the same time.		this	Fall Semes: CSC 3050 CSC 3400 CSC 3040 CSC 4940 Spring Sen CSC 3004 CSC 3450 CSC 4005 CSC 4940	Web Programming Data Communication and Networking Cyber Security Management Internship: Computer Science	

Completion of 120 credits required for graduation.

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# COMPUTER SCIENCE DEPARTMENT Information Sheet



# What makes us unique?

ABET accredited since 2006! ABET is the recognized United States accreditor of college and



Computing Accreditation Commission

university programs in applied and natural science, computing, engineering, and engineering technology.

#### This means:

- Our programs are reviewed regularly according to a national education standard
- We continuously assess our program and improve our curriculum to provide current and relevant instruction to meet student needs.

#### **Facilities**

The students in the Computer Science Department have access to state-of-the-art multimedia classrooms and lecture/labs.

### In addition, the department offers:

- Access to required software through special educational software licenses from Microsoft, and other prominent software vendors.
- High speed Internet connections between computer labs and departmental network using the latest technologies.
- Hardware labs containing equipment for teaching courses such as digital electronics, computer organization, microprocessors, digital signal processing, data communications, local area networks and embedded systems.
   Windows, UNIX, LINUX, and state-of-the-art database servers.

# **Faculty**

With an average student-to-faculty ratio of 14 to one, every student receives the kind of personal attention they need to master a variety of skills applicable to the business world. Many members of the faculty hold doctoral degrees, and many have been recognized for their expertise in a variety of areas such as systems programming, networking, data communication, data analytics, and algorithms. The faculty are also known for their active involvement in advancing the technological capabilities on campus.

Students benefit from an interdisciplinary approach, taking courses from such disciplines as mathematics and business administration. Faculty from many departments team up to offer dynamic instruction in workplace applications, as well as in group projects. All are recognized for their teaching excellence and involvement with professional organizations.

# **Internships**

Computer Science and Computer Information Systems students are encouraged to pursue off-campus internships in their senior year to hone their real-world skills outside the classroom. Most internships are paid, and all positions can provide a real edge after graduation.

#### **Past and Current Internship Opportunities:**

- Dell EMC
- IBM Mass Lab
- MassGeneral Hospital for Children
- Dun & Bradstreet
- VeriSign, Inc.

- Jibunu
- State Street Corporation
- PerkinElmer, Inc.
- ERP Analysts, Inc.
- Staples, Inc.





