		tic Tech		- /	TECHNICAL CO	
Game/Si	mulat	ion/An	imatior	n Programming		
	Ρι	rogram	Syllab	us		
		2017-	-2018		on and County Public School	
Instructor Name: Ellen Williams	s			Instructor Office Hours:		
Department Name: Business and Information Tech			nology	M-F: 6:30 am – 7:00 am		
Office/Classroom Location: Building 7 – Room 177				2:00 pm – 3:00 pm by appointment		
Phone Number: (754) 321-5100						
Email Address: ellen.a.williams	@browar	dschools.co	от			
Student Hours:	•	m Name:				
Monday – Friday				Programming – PSAV		
Online	OCPs			ourse Name	Hours	
Lab Thursday	A		•	mulation Designer	300	
5:30 pm – 8:30 pm	B		•	mulation Programmer	150	
	С	DIG0076	: Game/Sir	mulation Software Developer	150	
Technical College Policy/Adu	lt Studen	t Attendar	nce:			
• A student must be with	drawn aft	er being at	osent for si	ix (6) consecutive days.		
				nder certain circumstance wi	th appropriate	
documentation.						
Please refer to the Stud	ent Hand	book for po	ostseconda	ary students.		
http://www.atlantictechnicalcolleg			loads/2016	6/08/BTC_Handbook_2016-17.pdf		
Magnet High School/Attenda		-				
				absences for which the reason		
-			•	nces for which the reasons are u	•	
		ting a patte	ern of non-	attendance (F.S.1003.26 (1) (b)) and the School	
Board of Broward County, Polic	cγ 5.5.					
Required Book(s):			Require	ed Materials/Supplies:		
1. Game Development Esse	ontials		• ((omputer Headset		
(ISBN# 9781111307653)	intiuis		 USB Drive / 8GB 			
2. CIW JavaScript Specialist	Flectron	ic	 Three-ring binder with index tabs 			
Student Kit	Licetion			en, Pencil & Notebook		
				nd most importantly, a positive	attitude	
				ared for success!	attitude	
			50			
		ı				
All required books & most materials/su	upplies can	be purchased	d from the sc	hool bookstore. Stop by during operat	tional hours for	

pricing & purchasing information.

A 90 - 100% Assignments 40% B 80 - 89% Average of Tests 50% C 70 - 79% Work Habits 10% D 60 - 69% 10% Normal State 10% F 0 - 59% 10% Normal State 10% Course Grading Policy: Scheduled assignments are due each Monday by 11:59 pm. Late submission of assignment grade. Students assume full responsibility for the content and integrity of the academi. The guiding principle of academic integrity shall be that a student's submitted w reports, and projects must be that of the student's own work. Unless otherwise stated by the instructor, external references including books, and/or the Internet may not be utilized during assessments or exams. Blank scr permitted during certain assessments. E Exams may include an oral or lab/skills component and final exams will be comp during a class/lab session. View Your Grades: Grades can be viewed online by following the directions below: 1. Go to https://browardfocus.com (access FOCUS using Chrome, Firefox or Safari] Student ID which is on your student schedule. Passcode: Student's date of birth formatted as YYYYMMDD. Four digits for the year, two digits for the month and two digits for the day. Class Room/ Lab Rules: Yo folow all instructions given by ATC staff Yo foulor beverages in the lab Cell ph	ge of Tests 50% Habits 10% m. Late submission of work will affect the tegrity of the academic work they submit. student's submitted work, examinations, vork. ences including books, calculators, notes nal exams will be completed in-person me: rome, Firefox or Safari) DD. digits for the day.
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Program Name: Game/Simulation/Animation Programming

Course Number: DIG0070

Course Name: Game/Simulation Designer Occupational Completion Point: A Intended Outcomes: (From FL DOE Curriculum Framework)

- Create a game design production plan that describes the game play, outcomes, controls, interface and artistic style of a video game.
- Use information technology tools.
- Design and create a playable game.
- Categorize the different gaming genres.
- Categorize different gaming platforms.
- Understand the historical significance of electronic and non-electronic games.
- Describe the trends in current and future game development.
- Identify the business model commonly used in game development industries.
- Examine and categorize the significant processes in the production of games.
- Understand the core tasks and challenges that face a video game design team.
- Identify legal issues that affect games, developers and players.
- Demonstrate the professional level of written and oral communication required in the game development industry.
- Investigate career opportunities in the game industry.
- Demonstrate an understanding of the vocabulary of the industry for discussing games and play.
- Demonstrate research and information fluency.
- Demonstrate an understanding of the techniques used to evaluate game mechanics, game play, flow, and game design.
- Identify popular games and identify commonality between them.
- Understand the general procedure and requirements of game design.
- Explore the methods used to create and sustain player immersion.
- Become familiar with popular game tools such as DirectX, 3DMax, and different gaming engines.
- Demonstrate language arts knowledge and skills.
- Demonstrate mathematics knowledge and skills.
- Demonstrate science knowledge and skills.
- Create a working game or simulation individually or as part of a team.
- Describe the game development life cycle.
- Identify hardware constraints on video games including processors and I/O devices.
- Understand the general principles of storytelling.
- Understand character archetypes and character design.
- Understand the use of storyboarding in game design.
- Develop a game design document or cut.
- Understand outlining in game designs.
- Explore elements of puzzle design.
- Discuss game designer strategy considerations.
- Understand the process of creating and designing player choice.
- Create and design the game flow as it relates to story and plot.

- Assess common principles and procedures in game flow design.
- Describe player challenge rule creation elements.
- Identify tools and software commonly used in game development.
- Understand the technical methodologies for integrating digital media into a game or simulation.
- Identify commonly used art and animation production tools in the game design industry.
- Understand the general concepts of environmental design.
- Describe how environmental design is used in conjunction with game level design.
- Describe pertinent issues facing game designers.
- Describe Monte Carlo simulation as it relates to game design.
- Understand the use of inventory systems in game design.
- Use information technology tools.
- Describe the roles within a game studio.
- Describe the importance of professional ethics and legal responsibilities.

Program Name: Game/Simulation/Animation Programming

Course Number: DIG0075

Course Name: Game/Simulation Programming

Occupational Completion Point: B

Intended Outcomes: (From FL DOE Curriculum Framework)

- Identify functions of information processing.
- Test programs.
- Plan program design.
- Code programs.
- Perform program maintenance.
- Create and maintain documentation.
- Evaluate assigned game programming tasks.
- Implement enhanced program structures.
- Demonstrate the importance of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance.
- Demonstrate leadership and teamwork skills needed to accomplish team goals and objectives.
- Explain the importance of employability skill and entrepreneurship skills.
- Demonstrate personal money-management concepts, procedures, and strategies.

Program Name: Game/Simulation/Animation Programming

Course Number: DIG0076

Course Name: Game/Simulation Software Developer

Occupational Completion Point: C

Intended Outcomes: (From FL DOE Curriculum Framework)

- Identify and describe basic network terminology and network security.
- Game configuration.
- Test programs.
- Plan program design.
- Create and maintain documentation.
- Code programs.
- Demonstrate an understanding of operating systems, environments, and platforms.
- Implement enhanced program structures.
- Implement multimedia programming.
- Develop an understanding of programming techniques and concepts.