

20000 68th Ave W Lynnwood, WA 98036-5999 www.edcc.edu

Computer Science Computer Game Development Certificate Program Requirements 2011-2012

Student Name	
Student ID	

Program Description The electronic entertainment industry has become one of the largest and fastest growing industries in the United States and has a large representation in the Puget Sound area. The Computer Game Development Certificate is designed for people who wish to gain basic skills which will assist them in the development of software for computer graphics, multimedia, and games, and for employment in the electronic entertainment industry. The curriculum includes general programming courses in C/C++, and specialized courses aimed at the design, development and testing of Windows based games using commercial development tools.

The certificate program is offered in either an on-campus or on-line option. For more information about this program, visit http://gamedev.edcc.edu or email gamedev@edcc.edu.

Degree Outcomes Outcomes for Edmonds Community College degrees and certificates can be found in the online college catalog at the bottom of each degree or certificate. To find specific outcomes, click on the degree or certificate from the program list in the online catalog at http://catalog.edcc.edu.

Common Course Numbering Changes Please refer to www.edcc.edu/ccn for more information.

Prerequisites ART 225 and ENGL 100 or Accuplacer placement with a combined minimum GPA of 2.5 or permission of the Department of Computer Science is required for admission into the certificate program. MATH& 141 or its equivalent is recommended.

Credit/Grade Requirements The Computer Game Development Certificate is awarded upon the completion of 63-66 credits of *General Education/Related Instruction Requirements, Program Requirements and Electives* as outlined. A minimum of 30 credits or one-third, whichever is less, of the required credits must have been received from Edmonds Community College. Students are required to maintain a minimum cumulative grade point average of 2.0 in all college-level courses as well as a minimum grade point average of 3.0 within the program requirements.

General Education/Related Instruction Requirements
Students who complete degrees or certificates of 45
credits or more are required to demonstrate learning in the
following general education/related instruction areas
communications, computation/quantitative skills, and
human relations/group interaction.

Cultural Diversity Requirement Edmonds Community College requires that students earning a degree or certificate of 45 credits or more meet the Cultural Diversity Requirement. Courses that satisfy this requirement are marked as ":CD" on the requirement sheet and/or "Meets Cultural Diversity Requirement" in the quarterly class schedule.

Students Are Advised To

- Plan their schedule several quarters in advance in order to accommodate courses that are offered only once or twice a year
- Review the college catalog for required course prerequisites and include these in schedule planning
- Check plans with the appropriate faculty adviser

Graduation Application A completed Graduation Application form must be submitted to Enrollment Services by the 10th day of the quarter in which the student expects to graduate. Forms are available at Enrollment Services located in Lynnwood Hall, or online at www.edcc.edu/credentials/

To contact us about the Game Development Program call 425-640-1902 or email gamedev@edcc.edu

College Resources

Game Certificate Info
CS Department
Home Page
How to enroll
Bookstore
Advising Appointments
http://cs.edcc.edu
http://cs.edcc.edu
http://getstarted.edcc.edu
http://bookstore.edcc.edu
425-640-1458

On-Campus Track

Course <u>Cr</u> <u>Gr</u> Qtr General Education Requirements (16 credits) Communications Skills - 5 credits (Choose ONE of the following) ENGL& 101 English Composition I 5 ENGL& 102 Composition II 5 ENGR 231 Intro to Technical Writing BSTEC 110 Business Communications:CD Computation/Quantitative Skills - 5 credits CS 115 Intro to Programming Human Relations/Group Interaction*- 5 credits Career Management - 1 credit BSTEC 294 Career Management OR 3 JOBDV 110 Resumes and Interviewing Program Requirements (50 credits) Core requirements - 25 credits CS& 131 Computer Science I C++ ** CS 132 Computer Science II C++ ** CS 161 Computer Game Development I 5 CS 162 Graphics Programming I CS 218 Introduction to C# **Electives -** 25 credits (choose 5 of the following) CS 133 Computer Science III C++ ** CS 163 Graphics Programming II CS 185 2D Game Project CS 194 3D Graphics Animation 5 CS 262 3D Graphics Programming I CS 285 3D Game Project 5 CS 290 Software Testing I CS 293 Game Testing or any online elective gaming courses listed to the right Total 66

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Course	Qtr	Cr	Gr
General Education Requirements (18 credi	ts)		
Communications Skills - 5 credits			
(Choose ONE of the following)		_	
ENGL& 101 English Composition I		5	
ENGL& 102 Composition II			
BSTEC 110 Business Communications:CD			
Communications.CD			
Computation/Quantitative Skills – 5 credits			
CS 115 Intro to Programming ****	•	5	
3			
Human Relations/Group Interaction* - 5 credits			
		5	
Caroor Management - 2 gradite			
Career Management - 3 credits BSTEC 294 Career Management		3	
DOTEC 294 Career Management		3	
Program Requirements (45 credits) Core requirements - 20 credits			
CS 135 C & C++ Review I ***		5	
CS 136 C & C++ Review II		5	
CS 271 3D Game Dev I DirectX		5	
CS 272 3D Game Dev II DirectX		5	
Electives - 25 credits (choose 5 of the follow	ing)		
CS 170 Game Mathematics I		5	
CS 172 Game Mathematics II		5	
CS 210 Game Physics		5	
CS 273 3D Game Dev III DirectX		5	
CS 274 3D Game Dev IV Direct X		5	
CS 283 Al for Game Developers		5	
CO 200 7 il loi Gaillo Devolopolo		3	
	Total	63	

Cultural Diversity Requirement met

Explanatory Notes

*This requirement is satisfied by the completion of CS 161, 162, 163, 185, or 285

Course Number/Quarter

Requires extensive previous programming experience in C/C++ or similar language

Adviser's Signature	Date	Dean's Signature	Date	

^{**} CS& 141, CS 142, 143 (Computer Science I, II, III Java) may be substituted for CS& 131, CS 132, 133 with the permission of the department

^{****} Online track students may take hybrid section of CS 115 on a totally online basis with instructor permission