

UNIVERSITY OF BALTIMORE

DOCUMENT N: COURSE AND PROGRAM DEVELOPMENT COVER SHEET

See Course and Program Development Policy and Procedures for Instructions

SCHOOL: LAW <input type="checkbox"/> MSB <input type="checkbox"/> YGCLA <input checked="" type="checkbox"/>	Contact Name: Harmeyer	Phone: x5473
DEPARTMENT / DIVISION: School of Information Arts & Technologies		
SHORT DESCRIPTION OF PROPOSAL (state name of action item 1-20 and course name, code & number / program affected):		
8- New Course – COSC 260 Introduction to 3D Graphics		
PROPOSED SEMESTER OF IMPLEMENTATION: Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Year: 2008		

Box 1: TYPE OF ACTION	ADD(NEW) <input checked="" type="checkbox"/>	DEACTIVATE <input type="checkbox"/>	MODIFY <input type="checkbox"/>	OTHER <input type="checkbox"/>
Box 2: LEVEL OF ACTION	Non-Credit <input type="checkbox"/>	Undergraduate <input checked="" type="checkbox"/>	Graduate <input type="checkbox"/>	OTHER <input type="checkbox"/>

Box 3: ACTION ITEM (check appropriate boxes)	DOCUMENTS REQUIRED (see box 4 below)	IMPACT REVIEWS (see box 5 on back)	APPROVAL SEQUENCE (see box 6 on back)
1. Experimental Course ¹	NOP	a, c, e	AC
2. Course Title	NO		ABCD
3. Course Credits	NO		ABCD
4. Course Number	NO		ABCD
5. Course Level	NO		ABCD
6. Pre & Co-Requisite	NO		ABCD
7. Course Description	NOP		ABCD
<input checked="" type="checkbox"/> 8. New Course	NOP		ABCDEF
9. Deactivate a Course	NO		ABCDEF
10. Program Requirements	NO	b, c, d, e	ABCDEF
11a. UG Specialization (24 credits or less)	NO	a, b, c, d, e	ABCDEF
11b. Masters Specialization (12 credits or less)	NO	a, b, c, d, e	ABCDEF
11c. Doctoral Specialization (18 credits or less)	NO	a, b, e	ABCDEF
12. Closed Site Program	NOT	e	ABCDHIK
13. Program Suspension ⁹	NO,5	a, e	ABCDEGIK
14a. Certificate Program (ug/g) exclusively within existing degree program	NO	a, c, e	ABCDEFHIK
14b. Certificate Program (ug/g) where degree programs do not exist or where courses are selected across degree programs (12 or more credits)	NOQR, 6	a, c, e	ABCDEFHJL
15. Off-Campus Delivery of Existing Program	NO, 4	a, b, c, e	ABCDHIL
16a. UG Concentration (exceeds 24 credit hours)	NO, 5	a, c, d, e	ABCDEFHJL
16b. Masters Concentration (exceeds 12 credit hours)	NO, 5	a, c, d, e	ABCDEFHJL
16c. Doctoral Concentration (exceeds 18 credit hours)	NO, 5	a, c, d, e	ABCDEFHJL
17. Program Title Change	NO, 5	a, c, d, e	ABCDEFHJL
18. Program Termination	NO, 10	d, e	ABCDEFHIK
19. New Degree Program	NOQR, 3,8	a, c, d, e	ABCDEFHJL
20. Other	Varies	Varies	Varies

Box 4: DOCUMENTATION (check boxes of documents included)			
<input type="checkbox"/> N. This Cover Sheet	<input type="checkbox"/> Q. Full 5-page MHEC Proposal	<input type="checkbox"/>	<input type="checkbox"/> T. Other
<input type="checkbox"/> O. Summary Proposal	<input type="checkbox"/> R. Financial Tables (MHEC)	<input type="checkbox"/>	
<input type="checkbox"/> P. Course Definition Document	<input type="checkbox"/> S. Contract	<input type="checkbox"/>	

- Approval of experimental course automatically lapses after two offerings unless permanently approved as a new course.
- Codes: a) Library Services (Langsdale or Law) b) Office of Technology Services c) University Relations d) Admissions
- Letter of Intent is required by USM at least 30 days before a full proposal can be submitted. Letter of Intent requires only the approval of the dean and the provost and is forwarded to USM by the Office of the Provost.
- One-page letter to include: Program title & degree/certificate to be awarded; resources requirements; need and demand; similar programs; method of instruction; and oversight and student services (MHEC requirement)
- One-page letter with description and rationale (MHEC requirement)
- One or two-page document that describes: centrality to mission; market demand; curriculum design; adequacy of faculty resources; and assurance program will be supported with existing resources. (MHEC requirement)
- Learning objectives, assessment strategies; fit with UB strategic plan
- Joint Degree Program or Primary Degree Programs require submission of MOU w/ program proposal. (MHEC requirement)
- Temporary suspension of program to examine future direction; time not to exceed two years. No new students admitted during suspension, but currently enrolled students must be given opportunity to satisfy degree requirements.

DOCUMENT N: COURSE AND PROGRAM DEVELOPMENT COVER SHEET (Page 2 of 2)

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SHORT DESCRIPTION OF PROPOSAL (state name of action item 1-20 and course name, code & number / program affected):
8- New Course – COSC 260 Introduction to 3D Graphics

10. Provide:
- a. evidence that the action is consistent with UB mission and can be implemented within the existing program resources of the institution.
 - b. proposed date after which no new students will be admitted into the program;
 - c. accommodation of currently enrolled students in the realization of their degree objectives;
 - d. treatment of all tenured and non-tenured faculty and other staff in the affected program;
 - e. reallocation of funds from the budget of the affected program; and
 - f. existence at other state public institutions of programs to which to redirect students who might have enrolled in the program proposed for abolition.
11. University Council *review* (for a recommendation to the President or back to the Provost) shall be limited to curricular or academic policy issues that may potentially affect the University's mission and strategic planning, or have a significant impact on the generation or allocation of its financial resources.

Box 5: IMPACT REVIEW	N/A	SIGNATURES (see procedures for authorized signers)	DATE
a. Library <input checked="" type="checkbox"/> No impact <input type="checkbox"/> Impact statement attached		Director or designee: <i>Steph Per Jabara</i>	12/6/06
b. OTS <input type="checkbox"/> No impact <input type="checkbox"/> Impact statement attached		CIO or designee:	
c. University Relations <input type="checkbox"/> No impact <input checked="" type="checkbox"/> Impact statement attached		Director or designee: <i>Catherine Skeddine</i>	12-6-06
d. Admissions <input type="checkbox"/> No impact <input checked="" type="checkbox"/> Impact statement attached <i>see UR</i>		Director or designee: <i>Dan H. Johns</i>	12.6.06
e. Records <input checked="" type="checkbox"/> No impact <input type="checkbox"/> Impact statement attached		Registrar or designee: <i>J. Moore</i>	12/6/06

Box 6: APPROVAL SEQUENCE	APPROVAL SIGNATURES	DATE
A. Department / Division	Chair: <i>Nancy [Signature]</i>	12/07/06
B. Final faculty review body within each School	Chair: <i>Margaret J. Potthast</i>	12/18/06
C. College Dean	Dean: <i>Lyn W. [Signature]</i>	1/3/07
D. Provost and Senior Vice President for Academic Affairs	Provost: <i>Ardis M. Kendall</i>	1/18/07
E. Curriculum Review Committee (UFS subcommittee)	Chair: <i>Michelle Gilligan</i>	1/23/07
F. University Faculty Senate (UFS option)	Chair:	
G. University Council (see # 11 above)	Chair:	
H. President	President:	
I. Board of Regents – notification only		
J. Board of Regents – approval		
K. MHEC – notification only		
L. MHEC – approval		
M. Middle States Association notification	Required only if the mission of the University is changed by the action	

DOCUMENT O: SUMMARY PROPOSAL

See Course and Program Development Policy and Procedures for Instructions

SCHOOL: LAW <input type="checkbox"/> MSB <input type="checkbox"/> YGCLA <input checked="" type="checkbox"/>	Contact Name: Harmeyer	Phone: 5473
DEPARTMENT / DIVISION: School of Information Arts & Technologies		
SHORT DESCRIPTION OF PROPOSAL action item 8, SDE Program, Add new course COSC 260 Introduction to 3D Graphics		
PROPOSED SEMESTER OF IMPLEMENTATION: Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Year: 2008		

O-1: Briefly describe what is being requested:

Add a new course, Introduction to 3D Graphics. This course provides a basics introduction to 3-D graphics and animation, a current prerequisite for entering the SDE program.

For new courses or changes in existing courses (needed by Registrar)

OLD Title:	Course # / HEGIS Code:	Credits:
NEW Title: 3-D Animation	Course # / HEGIS Code: COSC 260	Credits: 3

O-2: Set forth the rationale for the proposal:

The SDE program has developed five articulation programs with five community colleges in the state and two more are under development. These programs provide the first two years of a rigorous SDE program for transfer students. Students who have transferred to the program and have not had such a preparation are required to take four lower division courses before beginning the core for SDE here at UB. The four courses include an introductory multimedia authoring course, a 2-D graphics course, a 3-D graphics course, and technical writing. This course provides the 3-D graphics course content.

Document P: Required Format for Course Definition Document

Issued by: Wim Wiewel, Provost and Senior Vice President for Academic Affairs
Effective Date: September 14, 2006
Reviewed by: University Faculty Senate

Include in your course definition items one through 15 using as much space as needed.

1. Date Prepared 11/25/06
2. Prepared by Stuart Moulthrop
3. Department SIAT
4. Course Number(s), including HEGIS code(s) COSC 260
5. Course Title Introduction to 3D Graphics
6. Credit Hours 3
7. Catalog Description (Paragraph should reflect general aims and nature of the course)
This course introduces students to modeling, texturing, lighting, rendering, and simple animation using the industry-standard tool. It provides a foundation for further work with sophisticated 3-D and imaging tools. NOTE: Additional lab time outside of class may be required to complete course projects.
8. Prerequisites NONE
9. Faculty qualified to teach course Stuart Moulthrop
10. Course Type / Component (clinical, continuance, discussion, field studies, independent study, laboratory, lecture, seminar, supervision, thesis research, workshop) Lecture
11. Suggested approximate class size 24
12. Content Outline
 - A. Introduction
 - i. Box Modeling Exercise
 - ii. Multi-sub-object materials
 - iii. Introduction to Materials
 - B. Maps
 - i. Using Maps
 - ii. Mapping Coordinates
 - iii. Materials and Mapping
 - C. Lighting
 - i. Basic Lighting
 - ii. Global Illumination
 - D. Rendering the Scene
 - E. Animation Basics
 - i. Hierarchies

ii. Biped Animation

13. Learning Goals
 - A. Students will create structures, terrains, and simple characters with basic block-modeling, lofting, extrusion, and various techniques.
 - B. Students will apply both basic and advanced lighting as well as several methods for designing materials and applying textures to 3-D meshes.
 - C. Students will apply the fundamentals of set-key animation and basic character rigging to 3-D objects.
 - D. In addition to basic 3-D techniques, students will be able to compare and contrast other 3-D modeling systems and approaches, fundamental concepts of 3-D graphics, as well as their history and evolutionary path..
14. Assessment Strategies
 - A. Use a 3-D modeling tool to build a pair of dice. Animate rolling them and apply the proper lighting to the animation.
 - B. Model and animate a school of fish.
15. Suggested Text(s) and Materials (example: textbooks, equipment, software, etc.)
 - A. A. Yessine et al., *3ds Max 8 Essentials*. Autodesk/Focal Press, 2006.
 - B. P. Draper, *Deconstructing the Elements with 3d Studio Max 8*.

Impact Statement From the Office of University Relations

These changes could potentially affect the undergraduate and graduate catalogs—which the Office of University Relations currently manages and produces—as well as other recruitment publications that contain this type of specific academic material. The timing of the final approval for these changes will be a determining factor in our ability to incorporate the new information in a timely fashion in any related materials that are on our production schedule.