

Program Information Report

School of Digital Media Arts

Creativity abounds in the School of Digital Media Arts which encompasses the disciplines of animation, graphic design, internet professional, photography and digital video. The programs in Digital Media Arts introduce students to foundational skills in these disciplines and prepare them for creative jobs.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

The next level, an Associate Degree, is available for some programs. Credit hours from the certificate can be applied to the credit hours needed for the Associate Degree.

3D Animation

Learn the basics of three-dimensional animation used in videos, games and on the Web. This degree will prepare you for an entry-level position in digital modeling and animation.

3D Animation (APANIM)

Associate in Applied Science Degree

Program Effective Term: Fall 2012

The Digital Animation program prepares students for entry-level positions in digital 3D modeling and animation for use in video, CD-ROM and DVD presentations, broadcast graphics, video game design, kiosks, print (still views), and the Web. Emphasis is on visual perception of 3D form and shape, volume/weight, surface mapping and lighting, basic 3D animation and motion graphic composition for video and internet ready applications.

Program Admission Requirements:

High school Macintosh-based course, or GDT 105 with a "C" or better, or instructor permission.

General Education Requirements

ENG 107 or	Technical Writing I	3-4
ENG 111	Composition I	3
COM 101	Fundamentals of Speaking	3-4
Math	Elective(s)	3
Nat. Sci.	Elective(s)	3
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3
Computer Lit.	Elective(s)	3

Major/Area Requirements

ANI 145	Concept Development for Animation	2
ANI 150	3D Animation I: Modeling	4
ANI 155	Textures and Studio Lighting for Animation	4
ANI 160	Fundamentals of Movement and Animation	4
ANI 230	Motion and Sound	2
ANI 250	3D Animation II	4
ANI 260	3D Animation III	4
ART 111	Basic Drawing I	4
ART 127	Life Drawing I	4
GDT 139	Illustrator Graphics	4
GDT 140	Photoshop Graphics	4
INP 176	Web Animation I	3
VID 276	Advanced Video Graphics I	3

Minimum Credits Required for the Program:

67

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: APANIM Program Name: 3 D Animation

Effective Term:
Fall 2011

Division Code: Department: Digital Media Arts

Directions:
 1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
 2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
 3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

<input type="checkbox"/> Review	<input type="checkbox"/> Program admission requirements
<input checked="" type="checkbox"/> Remove course(s): _____ MTH 157 _____	<input type="checkbox"/> Continuing eligibility requirements
<input type="checkbox"/> Add course(s): _____	<input type="checkbox"/> Program outcomes
<input type="checkbox"/> Program title (title was ____)	<input type="checkbox"/> Accreditation information
<input type="checkbox"/> Description	<input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses)
<input type="checkbox"/> Type of award	<input type="checkbox"/> Other _____
<input type="checkbox"/> Advisors	
<input type="checkbox"/> Articulation information	

Show all changes on the attached page from the catalog.

Rationale for proposed changes or discontinuation:
 To lessen barriers for students entering or graduating in the program, any MTH will be acceptable
 Gen Ed.

Financial/staffing/equipment/space implications:

List departments that have been consulted regarding their use of this program.

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Randy VanWagen	<i>RV</i>	2-27-11
Department Chair	Kristine Willimann	<i>Kristine Willimann</i>	2/24/11
Division Dean/Administrator	Rosemary Wilson	<i>Rosemary Wilson</i>	2/25/11
Vice President for Instruction	Stuart Blacklaw	<i>S Blacklaw</i>	3/23/11
President	Larry Whitworth		

Do not write in shaded area. Entered in: Banner _____ C&A Database 3/31/11 Log File 3/2/11 Board Approval 3/21/11

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

for done

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Program Admission Requirements:

High school Macintosh-based course, or GDT 105 with a "C" or better, or instructor permission.

General Education Requirements (21 credits)

ENG 107 or	Technical Writing I		
ENG 111	Composition I		3-4
COM 101	Fundamentals of Speaking		3
MTH 157	Geometry and Trigonometry Elective(s)		3-4
Nat. Sci.	Elective(s)		3-4
Soc. Sci.	Elective(s)		3
Arts/Human.	Elective(s)		3
Computer Lit.	Elective(s)		3

Major/Area Requirements (45 credits)

ANI 145	Concept Development for Animation		2
ANI 150	3D Animation I: Modeling		4
ANI 155	Textures and Studio Lighting for Animation		4
ANI 160	Fundamentals of Movement and Animation		4
ANI 230	Motion and Sound		2
ANI 250	3D Animation II		4
ANI 260	3D Animation III		4
ART 111	Basic Drawing I		4
ART 127	Life Drawing I		4
GDT 140	Photoshop Graphics		4
INP 176	Web Animation I		3
VID 276	Advanced Video Graphics I		3
VID 280	DVD Authoring		3

Minimum Credits Required for the Program: 66

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High school Macintosh-based course, or GDT 105 with a "C" or better, or instructor permission.

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ANI 230	Motion and Sound	2
ANI 250	3D Animation II	4
ANI 260	3D Animation III	4
ART 111	Basic Drawing I	4
ART 127	Life Drawing I	4
GDT 140	Photoshop Graphics	4
INP 176	Web Animation I	3
VID 276	Advanced Video Graphics I	3
VID 280	DVD Authoring	3

Minimum Credits Required for the Program: 66

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: ~~ANI~~ **APANIM** Program Name: 3d Animation

Effective Term: Winter 2009

Division Code: BCT Department: Visual Arts

Directions:

1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

- | | |
|--|---|
| <input type="checkbox"/> Review | <input type="checkbox"/> Program admission requirements |
| <input checked="" type="checkbox"/> Remove course(s): <u>INP 276</u> | <input type="checkbox"/> Continuing eligibility requirements |
| <input checked="" type="checkbox"/> Add course(s): <u>ANI 160</u> | <input type="checkbox"/> Program outcomes |
| <input type="checkbox"/> Program title (title was _____) | <input type="checkbox"/> Accreditation information |
| <input type="checkbox"/> Description | <input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) |
| <input type="checkbox"/> Type of award | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Advisors | |
| <input type="checkbox"/> Articulation information | |

Show all changes on the attached page from the catalog.

Rationale for proposed changes or discontinuation:

Lack of actual animation (keyframing, concepts of animation, timing, motion curves, principles of animation) in the current class structure
 General student dissatisfaction with INP 276 as a required 3d animation course

Financial/staffing/equipment/space implications:

More lab time required in ANI lab (six more hours per week)
 Current staff can handle additional hours

List departments that have been consulted regarding their use of this program.

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Randy Van Wagnen		
Department Chair	Jennifer Baker	<i>[Signature]</i>	10/6/08
Division Dean/Administrator	Jeanne Wilson	<i>[Signature]</i>	10/6/08
Vice President for Instruction		Margaret Kelly	9/10/09
President			

Do not write in shaded area. Entered in: Banner C&A Database Log File 10/7/08 Board Approval

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: APANIM **Program Name:** 3D Animation

Effective Term:
w 2006

Division Code: _____ **Department:** BCT/VIS

Directions:

1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

- | | |
|--|---|
| <input type="checkbox"/> Review | <input type="checkbox"/> Program admission requirements |
| <input checked="" type="checkbox"/> Remove course(s): ART 108 Three Dimensional Design | <input type="checkbox"/> Continuing eligibility requirements |
| <input checked="" type="checkbox"/> Add course(s): ART 140 Life Drawing | <input type="checkbox"/> Program outcomes |
| <input type="checkbox"/> Program title (title was _____) | <input type="checkbox"/> Accreditation information |
| <input type="checkbox"/> Description | <input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) |
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| <input type="checkbox"/> Advisors | |
| <input type="checkbox"/> Articulation information | |

Show all changes on the attached page from the catalog.

Rationale for proposed changes or discontinuation:

ART 140 will replace ART 108. It will allow students to develop necessary figure, and gesture drawing skills appropriate for their continued understanding of character development for animation courses.

Financial/staffing/equipment/space implications:

List departments that have been consulted regarding their use of this program.

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Kristine Willimann	<i>Kristine Willimann</i>	11/22/2005
Department Chair	Dennis Guastella	<i>Dennis Guastella</i>	11/22/2005
Division Dean/Administrator	Rosemary Wilson	<i>Rosemary Wilson</i>	1/17/06
Vice President for Instruction	Roger Palay	<i>Roger Palay</i>	2/24/06

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Visual Arts Technology

3D Animation (APANIM)

Associate in Applied Science Degree

Program Effective Term: Fall 2006

The Digital Animation program prepares students for entry-level positions in digital 3D modeling and animation for use in video, CD-ROM and DVD presentations, broadcast graphics, video game design, kiosks, print (still views), and the Web. Emphasis is on visual perception of 3D form and shape, volume/weight, surface mapping and lighting, basic 3D animation and motion graphic composition for video and internet ready applications.

Program Admission Requirements:

High school Macintosh-based course, GDT 105 with a "C" or better, or instructor permission.

Continuing Eligibility Requirements:

Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

General Education Requirements

(19 credits)

ENG 107 or	Technical Writing I	
ENG 111	Composition I	3-4
COM 101	Fundamentals of Speaking	3
MTH 152	Technical Geometry and Trigonometry	4
Nat. Sci.	Elective(s)	3-4
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3

Major/Area Requirements

(45 credits)

ANI 145	Concept Development for Animation	2
ANI 150	3D Animation I: Modeling	4
ANI 155	Textures and Studio Lighting for Animation	4
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ANI 250	3D Animation II	4
ANI 260	3D Animation III	4
ART 111	Basic Drawing I	4
ART 140	Life Drawing	4
GDT 140	Photoshop Graphics	4
INP 176	Web Animation I	3
INP 276	Web Animation II	4
VID 276	Advanced Video Graphics I	3
VID 280	DVD Authoring	3

Minimum Credits Required for the Program

64

PROGRAM PROPOSAL FORM

Preliminary Approval – Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.

Final Approval – Check here when completing this form after the Vice President of Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

<p>Program Name:</p> <p>Division and Department:</p> <p>Type of Award:</p> <p>Effective Term/Year:</p> <p>Initiator:</p>	<p><u>3D Animation</u></p> <p><u>BCT/VIS</u></p> <p><input type="checkbox"/> AA <input type="checkbox"/> AS <input checked="" type="checkbox"/> AAS <input type="checkbox"/> Cert. <input type="checkbox"/> Adv. Cert. <input type="checkbox"/> Post-Assoc. Cert. <input type="checkbox"/> Cert. of Comp.</p> <p><u>Fall 2005</u></p> <p><u>Kristine Willimann</u></p>	<p>Program Code:</p> <p><u>APANIM</u></p> <p>CIP Code:</p> <p><u>110803</u></p>
<p>Program Features Program's purpose and its goals. Criteria for entry into the program, along with projected enrollment figures. Connection to other WCC programs, as well as accrediting agencies or professional organizations. Special features of the program.</p>	<p>Prepare students for entry-level positions in digital animation and related fields that utilize this technology, such as post-production industry, multi-media, advertising, web design. High school Macintosh-based course, or GDT 105 with C or better, or instructor permission The program draws on courses from GDT, PHO, VID and INP along with specific new 3D courses</p>	
<p>Need Need for the program with evidence to support the stated need.</p>	<p>Advisory Committee strongly recommends the development of 3D animation program. Digital animation is used in on-screen advertising, training videos and electronic manuals, and to some extent for educational games and simulations. For SE Michigan, there is a need for a workforce with developed 3D technology skills. This region has a substantial post-production industry connected to the auto industry. The current Illustration degree program would be absorbed into the 3D animation program. Additionally, this would better prepare illustration students for employment with skills that meet the area's current, creative technology needs. Student request for 3D animation courses and informal surveys of current VAT students show strong interest. Position WCC as a leader of 3D technology .</p>	
<p>Program Outcomes/Assessment State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program. Include assessment methods that will be used to determine the effectiveness of the program.</p>	<p>Outcomes</p> <ol style="list-style-type: none"> 1. Analyze and articulate client needs. 2. Conceptualize and plan 3D animation products that meet client needs. 3. Acquire modeling, animation, texturing, lighting skills for 3d animation products reflected in portfolios 4. Employability—create and incorporate skills that are demonstrated in portfolio/presentation. 	<p>Assessment method</p> <ol style="list-style-type: none"> 1. Articulation of concept and oral presentation documented by full time faculty 2. Critique of process and technical abilities 3. Review of technical proficiency and mastery 4. Portfolio evaluation

4/30/05
K. Williams
changed all of the
pre-requisites
MTH

Curriculum	Course ID Title Credit Pre-requisites																																																																																																																								
<p>Courses.</p> <p>List the courses in the program, as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list.</p> <p>ANI 155</p> <p>co-requisite ></p> <p>opened 19-21 area 43 Total 62-64</p> <p>co-requisite ></p>	<table border="1"> <thead> <tr> <th>Course ID</th> <th>Title</th> <th>Credit</th> <th>Pre-requisites</th> </tr> </thead> <tbody> <tr> <td colspan="4"><u>Fall Semester</u></td> </tr> <tr> <td>MTH 169</td> <td>Intermediate Algebra</td> <td>4</td> <td></td> </tr> <tr> <td>ART 111</td> <td>Basic Drawing I</td> <td>4</td> <td></td> </tr> <tr> <td>ART 108</td> <td>Three Dimensional Design</td> <td>4</td> <td></td> </tr> <tr> <td>GDT 140</td> <td>Photoshop Graphics</td> <td>4</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>16</td> <td></td> </tr> <tr> <td colspan="4"><u>Winter Semester</u></td> </tr> <tr> <td>PRO 000</td> <td>Studio Lighting for animation</td> <td>4</td> <td>GDT 140, ANI majors</td> </tr> <tr> <td>ANI 145</td> <td>Concept Development for Animation</td> <td>2</td> <td></td> </tr> <tr> <td>ANI 150</td> <td>3D Animation I</td> <td>4</td> <td>GDT 140 or VID 112, or INP 152</td> </tr> <tr> <td>INP 176</td> <td>Web Animation I</td> <td>3</td> <td>INP 152 or GDT 139 or GDT 140 minimum grade "C-"</td> </tr> <tr> <td>HUM</td> <td>Elective</td> <td>3</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>16</td> <td></td> </tr> <tr> <td colspan="4"><u>Spring/Summer Semester</u></td> </tr> <tr> <td>ENG 107 or 111</td> <td>English</td> <td>3-4</td> <td></td> </tr> <tr> <td colspan="4"><u>Fall Semester</u></td> </tr> <tr> <td>ANI 230</td> <td>Motion and Sound</td> <td>2</td> <td></td> </tr> <tr> <td>ANI 250</td> <td>3D Animation II</td> <td>4</td> <td></td> </tr> <tr> <td>VID 276</td> <td>Advanced Video Graphics</td> <td>3</td> <td>GDT 140 or VID 112</td> </tr> <tr> <td>Nat Sci</td> <td>Elective</td> <td>3-4</td> <td></td> </tr> <tr> <td>SOC</td> <td>Elective</td> <td>3</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>15</td> <td></td> </tr> <tr> <td colspan="4"><u>Winter Semester</u></td> </tr> <tr> <td>ANI 260</td> <td>3D Animation III</td> <td>4</td> <td>ANI 250</td> </tr> <tr> <td>INP 276</td> <td>Web Animation II</td> <td>3</td> <td>INP 176, minimum grade "C-"</td> </tr> <tr> <td>VID 280</td> <td>DVD Authoring</td> <td>3</td> <td>GDT 140</td> </tr> <tr> <td>COM 101</td> <td>Speech Elective</td> <td>3</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>13</td> <td></td> </tr> <tr> <td colspan="2">Total Credits:</td> <td>63-64</td> <td></td> </tr> </tbody> </table>	Course ID	Title	Credit	Pre-requisites	<u>Fall Semester</u>				MTH 169	Intermediate Algebra	4		ART 111	Basic Drawing I	4		ART 108	Three Dimensional Design	4		GDT 140	Photoshop Graphics	4				16		<u>Winter Semester</u>				PRO 000	Studio Lighting for animation	4	GDT 140, ANI majors	ANI 145	Concept Development for Animation	2		ANI 150	3D Animation I	4	GDT 140 or VID 112, or INP 152	INP 176	Web Animation I	3	INP 152 or GDT 139 or GDT 140 minimum grade "C-"	HUM	Elective	3				16		<u>Spring/Summer Semester</u>				ENG 107 or 111	English	3-4		<u>Fall Semester</u>				ANI 230	Motion and Sound	2		ANI 250	3D Animation II	4		VID 276	Advanced Video Graphics	3	GDT 140 or VID 112	Nat Sci	Elective	3-4		SOC	Elective	3				15		<u>Winter Semester</u>				ANI 260	3D Animation III	4	ANI 250	INP 276	Web Animation II	3	INP 176, minimum grade "C-"	VID 280	DVD Authoring	3	GDT 140	COM 101	Speech Elective	3				13		Total Credits:		63-64	
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<p>Budget</p> <p>Specify program costs in the following areas, per academic year:</p> <ul style="list-style-type: none"> Faculty Training/travel Materials/resources Facilities/equipment Other 	<p>Start-up costs</p> <p>The program could be ready for Fall, 2005. Software for one of our current labs will cost approximately \$6,120 (Maya Complete) - \$8040 (Maya Complete Bundle, includes Platinum membership). Funding for contracting course development of five new animation courses (\$4,500). This is also available an instructor learning bundle (http://www.aliaswavefront.com/eng/education/promotions.shtml#schools).</p> <p>Ongoing costs</p> <p>Training for full time faculty as professional development. \$3000</p>																																																																																																																								
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Program Information	<p>Accreditation/ License -</p> <p>Advisors – Kristine Willmann</p> <p>Advisory Committee - yes</p> <p>Admission requirements – High school Macintosh-based course, or GDT 105 with C or better, or instructor permission</p> <p>Articulation agreements - CCS (pending)</p> <p>Continuing eligibility requirements -</p>
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Assessment Plan:

	Learning outcomes to be assessed	Assessment tool	When assessment will take place	Course section(s) or other population (e.g. graduating students) to be assessed	Number of students to be assessed
1	Analyze and articulate client need	Articulation of concept and oral presentation documented by full time faculty	Winter 2006; every three years thereafter	Initially all students	Initially all students
2	Conceptualize and plan 3D animation products	Critique of process and technical abilities - rubric			
3	Incorporate modeling, animation, texturing, lighting	Review of technical proficiency and mastery			
4	Employability	Portfolio evaluation			

Scoring and analysis plan:

- How will the above assessment(s) be scored/evaluated (e.g. departmentally developed rubric, external evaluation, other)? Please describe the scoring range to be used or include a copy of the rubric.

technical abilities	1	2	3
communication of a concept	1	2	3
innovation and uniqueness	1	2	3
effective/appropriate technique and style	1	2	3

(didactic, documentary, informative, entertaining, humorous)

2. What will the standard of success be for this assessment (e.g. 75% of students must meet all learning outcomes)?
75% success

3. Who will score and analyze the data?
Faculty and external reviewers

4. How and when will the assessment results be shared with the department and/or other involved faculty?
Assessment report to the department

5. What additional assistance, if any, will the department/area require to complete this assessment?

Reviewer	Print Name	Signature	Date
Department Chair/Area Director			
Dean	Rosemary Wilson	Rosemary Wilson	3/23/05
Vice President of Instruction Approved for Development Final Approval		Prayer M. Pelayo	4/4/05
President		Rory Whitworth	4/4/05
Board Approval			

Visual Arts Technology

3D Animation (APANIM)

'UNDER CONSTRUCTION'

Associate in Applied Science Degree

Program Effective Term: Fall 2005

The Digital Animation program prepares students for entry-level positions in digital 3D modeling and animation for use in video, CD-ROM and DVD presentations, broadcast graphics, video game design, kiosks, print (still views), and the Web. Emphasis is on visual perception of 3D form and shape, volume/weight, surface mapping and lighting, basic 3D animation and motion graphic composition for video and internet ready applications.

Program Admission Requirements:

High school Macintosh-based course, GDT 105 with a "C" or better, or instructor permission.

Continuing Eligibility Requirements:

Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

General Education Requirements

(19 credits)

ENG 107 or	Technical Writing	
ENG 111	Composition I	3-4
COM 101	Fundamentals of Speaking	3
MTH 152	Technical Geometry and Trigonometry	4
Nat. Sci.	Elective(s)	3-4
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3

Major/Area Requirements

(45 credits)

ANI 145	Concept Development for Animation	2
ANI 150	3D Animation I: Modeling	4
ANI 155	Textures and Studio Lighting for Animation	4
ANI 230	Motion and Sound	2
ANI 250	3D Animation II	4
ANI 260	3D Animation III	4
ART 108	Three - Dimensional Design	4
ART 111	Basic Drawing I	4
GDT 140	Photoshop Graphics	4
INP 176	Web Animation I	3
INP 276	Web Animation II	4
VID 276	Advanced Video Graphics I	3
VID 280	DVD Authoring	3

Minimum Credits Required for the Program

64

ANI 145 Concept Development for Animation

This course is an introduction to the conceptualization process that precedes the creation of an animation.

Students will participate in all phases of developing an idea for an animation: research, plan, ideation, storyboarding, and logic.

ANI 230 Motion & Sound

This course focuses on ^{the} knowledge and skills needed to produce motion and sound for animations. Concepts and techniques related to the generation and use of sound will be studied.

Characteristics of space and movement will be studied, as well as

ART 108 Three Dimensional Design 4 cr. 90 contact hours

This studio class will use a variety of three-dimensional materials and methods to explore the question: What makes good design? Stressing practice before theory, the student will carve, articulate and construct designs that reveal and embody the principles that underlie good design.

ART 111 Basic Drawing I 4 cr. 90 contact hours

This course is an introduction to the central problems and issues of freehand drawing. Accurate representational drawing is emphasized through a series of projects concentrating on simple objects. The course is recommended for students who plan to continue in art at WCC or to transfer to another college or university.

New **ANI 155**
~~PHD 000~~ **Textures and Studio Lighting for Animation** 4 cr. 90 contact hours

Using traditional studio techniques and Adobe Photoshop students will learn to enhance form through use of lighting effects, cast shadows, highlights and reflections.

New **ANI 145 Concept Development for Animation** 2 cr. 30 contact hours

Researching, planning, ideation, storyboarding and logic. (to be taken concurrently with ANI 150)

New **ANI 150 3D Animation I: Modeling** 4 cr. 90 contact hours (prereq ART 108)

This course introduces students to creating digital 3D forms for animation. Various techniques (wire frame, compound primitives and NURBS) are used to construct 3D forms. Using industry-standard software, students develop 3D modeling/animation skills in while learning the technical vocabulary needed for the 3D modeling/animation industry. Students create and apply textures and lighting to digital 3D forms, investigate camera positioning/point of view, and perform simple rotational animation. (to be taken concurrently with ANI 145)

Major instructional units:

1. Introduction to digital 3D modeling software — basic menus and tools
2. Form construction
3. Surfaces
 - a) color
 - b) texture mapping
 - c) reflection/refraction
 - d) bump mapping
4. Camera / point of view (POV)
5. Deformers and morphing techniques
6. Rotational motion

INP 176 Web Animation 1 3 cr. 45contact hours

This course introduces students to effective animation for the web. Students will learn a brief history of animation and how animation has become a growing trend in presenting information on the web. Students will learn when and why animation is used as well as when it should be avoided or minimized. The class will use the latest industry-standard software to create interactive, animated web presentations. Students will gain an understanding of all aspects of animating for the web from concept and storyboarding to final production and implementation. This course was previously INP 255. Prerequisites: INP 152 or GDT 139 or GDT 140

*New***ANI 230 Motion and Sound** 2 cr. 30 contact hours

(to be taken concurrently with ANI 250)

*New***ANI 250 3D Animation II** 4 cr. 90 contact hours

This course builds on the 3D modeling course, with emphasis is on building and rendering more complex digital 3D forms. More types of motion are introduced, including camera "fly-throughs," lighting motion and object motion. Animations will be output for video format. (to be taken concurrently with ANI 230)

- | | |
|----------------------------|---------------------------------------|
| 1. 3D modeling | 5. Paint effects |
| 2. Lighting and rendering | 6. Introduction of dynamics (physics) |
| 3. Keyframe animation | 7. Output for video |
| 4. Multiple form animation | |

VID 276 Advanced Video Graphics I 3 cr. 60 contact hours

This course introduces students to motion graphics composition for film/video and internet distribution. Students learn the role of motion graphics in these media. Adobe After Effects is used as the main tool to create motion graphics compositions. Students learn the basics of visual effects terminology, effect keying and transparency, keyframing, synchronizing compositions to music, compression codes required for output optimization, and saving the finished composition to a variety of film/video and internet ready formats such as Apple QuickTime. Lecture, hands-on experience and creative mentoring are combined to develop motion graphics compositing skills. Students gain a working knowledge of After Effects and are exposed to examples of work from industry professionals for inspiration.

*New***ANI 260 3D Animation III** 4 cr. 90 contact hours

This course is a continuation of ANI 250, extending and integrating 3D software. Topics include organic animation, bones, scene construction, and rendering to final output.

- | | |
|------------------------|---|
| 1. Bones | 4. Particles |
| 2. Organic animation | 5. Scene building (sets) |
| 3. Hierarchy/parenting | 6. Final project that integrates skills from course |

INP 276 Web Animation II 4cr. 60 contact hours

In this course students will learn advanced animation techniques using Macromedia Flash, with a focus on creating effective interactive user interfaces. The class will combine both interface design concepts and basic programming using action script. A major focus of the class will be on concept of interaction design—the process of creating logical, intuitive and interactive user interfaces. This course is intended for students interested in enhancing their Flash skills and who already possess a basic knowledge of programming concepts.

VID 280 DVD Authoring 3 cr. 60 contact hours

DVD Authoring will give students the skills to create interactive DVDs using digital video, graphic files, photographs and any other multi-media formats. With the use of menus, buttons, subtitles, alternate languages and sound tracks, this course will be an excellent way for students to create a portfolio and add an additional skill on their resume.