

Attachment A
Updated Timelines

Note: The following charts have been updated by adding the final two columns, entitled: *Staff Responsible and Activity Completed*

	<i>Revise/update current A.A.S. degree and three Certificates in Mechanical Design and Drafting/CAD to include Parametrics.</i>				
Objective 1.A	Revise three existing courses to include a Parametric Modeling component.				
Activities	Timeline		Outcome	Staff Responsible	Activity Completed
	Initiation	Completion			
1. Revise Syllabi and Course Outlines for MDT-160, MDT-285 and MDT-288 to include 3D parametric modeling.	Spring 2002	Fall 2002	Three revised courses are ready to be submitted for approval by College and Illinois Community College Board (ICCB).	Chuck Bales J.C. Malitzke	Completed
Objective 1.B	Develop two new courses on 3D Parametric Modeling				
Activities	Timeline		Outcome	Staff Responsible	Activity Completed
	Initiation	Completion			
1. Develop new Syllabi and Course Outlines for MDT-278 and MDT-289.	Spring 2002	Fall 2002	The two new courses will be ready to be submitted for approval by College and Illinois Community College Board (ICCB).	Rick Lapidus J.C. Malitzke	Completed
Objective 1.C.	Incorporate the use of rapid prototyping machine for building models and testing designs created in the three revised and the two new courses in the Mechanical Design and Drafting/CAD programs.				
Activities	Timeline		Outcome	Staff Responsible	Activity Completed
	Initiation	Completion			
1. Develop problem sets consisting of 3D drawings, orthographic drawings, engineering notes, and sketches suitable for model creation for the five courses which include 3D parametric modeling components.	Spring 2002	Summer 2002 <i>Summer 2004 Rev. 1</i>	Set of problems suitable for rapid prototyping model creation is completed.	Chuck Bales J.C. Malitzke	Under Development
2. Develop instructional modules, based on problem sets, which incorporate engineering design requirements.	Summer 2002	Spring 2003 <i>Summer 2004 Rev. 1</i>	Instructional modules are developed.	Chuck Bales J.C. Malitzke	Under Development
Objective 1.D.	Submit revised A.A.S. in <i>Mechanical Design and Drafting/CAD</i> (including revised certificates) to Illinois Community College Board for approval.				
Activities	Timeline		Outcome	Staff Responsible	Activity Completed
	Initiation	Completion			
1. Conduct a curriculum review meeting with existing Career Program Advisory Committee to review, modify and approve the revised and new courses. Conduct annual meetings with the committee to review the project progress and incorporate any suggested revisions.	Spring 2002	Fall 2004	Curriculum changes is reviewed, modified and approved by the Project Advisory Committee. Annual review meetings are conducted	J. C. Malitzke	Tentative meeting scheduled for May/June 2004 Feb 2005

2. Submit revised A.A.S. degree in Mechanical Design and Drafting/CAD, and revised certificates for approval by college's curriculum review team. Certificate: <ul style="list-style-type: none"> ▪ Mechanical Design Drafting Certificate ▪ Mechanical Design CAD Certificate ▪ 3D CAD Certificate 	Fall 2002	Spring 2003	Revised A.A.S degree in Mechanical Design and Drafting/CAD and three Certificate(s) approved by the College Curriculum Review Team.	Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis	Completed
3. Submit revised A.A.S. degree in Mechanical Design and Drafting/CAD and three revised certificates for approval by Illinois Community College Board/ICCB.	Spring 2003	Fall 2004	Revised A.A.S. degree in Mechanical Design and Drafting/CAD and three Certificate(s) approved by ICCB.	Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis	Completed
4. Fully implement revised A.A.S degree and revised certificates in Mechanical Design and Drafting/CAD.	Fall 2004	Fall 2005	All degree and certificate programs are fully implemented.	Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis	Spring 2005 or Fall 2005

Goal 2	<i>Build on existing partnerships with high schools and other community colleges to develop, pilot test and disseminate 3D Parametric Modeling courses.</i>				
Objective 2.A	Establish a Content Development Team.				
Activities	Timeline		Outcome	Staff Responsible	Activity Completed
	Initiation	Completion			
1. Establish a Content Development Team consisting of 12 faculty members from three community colleges and five high schools to actively participate in curriculum development, pilot testing, evaluation and modification.	Spring 2002	Spring 2002	A development team composed of curriculum development consultants and instructors from partner high schools and colleges is established. Work tasks defined for each year.	J.C. Malitzke	Completed (Members added or subtracted as warranted)
Objective 2.B	Develop/conduct Content Development Team summer workshops and coordinate year-round pilot testing and evaluation.				
Activities	Timeline		Outcome	Staff Responsible	Activity Completed
	Initiation	Completion			
1. Develop and conduct syllabus, course content and curriculum projects for the three revised and two new courses for two-week long workshops with Content Development Team members to be held in summers 2002, 2003, and 2004.	Spring 2002 2003 2004	Summer 2002 2003 2004	Syllabus, course content and curriculum development projects are developed for the three summer workshops.	Chuck Bales Rick Lapidus J.C. Malitzke	Completed Summer 2002 and Summer 2003. ----- Summer 2004 (June 1-4, 2004)

<p>2. Evaluate curricular materials that have been developed. Evaluation will occur during the summer workshops and during the school year when new curriculum is pilot tested at the Content Development Team's institutions. Integrate evaluation results into final materials.</p>	<p>Summer 2002</p>	<p>Spring 2005</p>	<ul style="list-style-type: none"> • Tests are conducted during the workshops on newly developed materials and necessary revisions are integrated. • Pilot tests are conducted throughout the academic year at the Content Development Team's institutions and necessary revisions are integrated. 	<p>Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis</p>	<p>Currently field testing and re-evaluating</p>
<p>3. Meet twice annually with the Content Development Team to discuss the implementation of the field test results and possible modifications to the developed material.</p>	<p>Fall 2002</p>	<p>Spring 2005</p>	<p>Pilot test results are analyzed and the materials are modified according to the feedback received.</p>	<p>Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis</p>	<p>Team has met twice in 2002, twice in 2003 and once in 2004 to date.</p>

<p>Goal 3</p>	<p><i>Utilize e-Learning tools to incorporate Web-enhanced instructional course resources.</i></p>				
<p>Activities</p>	<p>Timeline</p>		<p>Outcome</p>	<p>Staff Responsible</p>	<p>Activity Completed</p>
	<p>Initiation</p>	<p>Completion</p>			
<p>1. Determine instructional/delivery technique to be used for each course based on topic, content, course objectives, and educational goals. These include: work group projects, online assignments, exercises, tests, quizzes, remote collaboration, project workflow analyses, on-line tutorials, and lab exercises.</p>	<p>Summer 2002</p>	<p>Fall 2003</p>	<p>Instructional/delivery methods determined and incorporated into each course.</p>	<p>Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis Angela Sproloulos</p>	
<p>2. Hire an expert Web content developer to create course content identified as appropriate for web delivery by Content Development team.</p>	<p>Fall 2002</p>	<p>Fall 2004</p>	<p>Web content developer creates course and curriculum content for web delivery.</p>	<p>J.C. Malitzke Angela Sproloulos</p>	<p>Completed</p>
<p>3. Utilize BlackBoard web-course and portal management software to facilitate web-assisted instruction. Web content developer will assist in this activity.</p>	<p>Fall 2002</p>	<p>Spring 2005</p>	<p>BlackBoard is utilized to develop web-assisted instructional components for each course.</p>	<p>Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis Angela Sproloulos</p>	
<p>4. Content Development Team evaluates the effectiveness of the web-assisted instructional components when pilot testing curriculum in their institutions.</p>	<p>Fall 2003</p>	<p>Spring 2005</p>	<p>The Content Development Team pilot tests the effectiveness of the various web-enhanced instructional methods. Curriculum is modified as needed.</p>	<p>J.C. Malitzke</p>	

<p>Goal 4</p>	<p><i>Standardize the 3D CAD Certificate for dissemination at other institutions.</i></p>				
<p>Activities</p>	<p>Timeline</p>		<p>Outcome</p>	<p>Staff Responsible</p>	<p>Activity Completed</p>
	<p>Initiation</p>	<p>Completion</p>			
<p>1. Conduct four-day summer workshops to disseminate new</p>	<p>Spring</p>	<p>Summer</p>	<ul style="list-style-type: none"> • Evaluation the standardized 	<p>J.C. Malitzke</p>	<p>Summer 2002</p>

curriculum to interested high school and college faculty. Use the workshops to evaluate the standardized format of the revised material, the management tools and the delivery mechanisms. Summers 2003 and 2004.	2003 2004	2003 2004	curriculum format during the workshops and incorporate changes as necessary. <ul style="list-style-type: none"> Curriculum is made available to other institutions after Summer 2004. 	Sandy Rizzo	was added and completed for technical update training only. Summer 2003 delivered technical and pedagogical training using to date developed materials.
2. Establish a Project Web Page, linked to MVCC home page, to disseminate the project progress and outcomes. Include instructions on how interested institutions can participate in the dissemination process.	Fall 2002	Fall 2004	Information about project progress and instructions on how institutions can participate and access curriculum is available on the project Web page and MVCC home page.	Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis Kristine Christensen and Angela Sprolous	Completed. Web page is up and running. Revisions are weekly as needed. http://www.morainevalley.edu/cad
3. Present and disseminate to national and regional professional conferences: League for Innovation in the Community College, Illinois Drafting Association, Autodesk Web site, MACS/Regional high schools, SMRHEC/regional colleges, National Coalition for Advanced Technology Centers, Vanguard colleges, and College Excel/Chg. Public Schools.	Summer 2004	Fall 2004	New and revised curriculum material is presented and evaluation is conducted to determine interest in and understanding of presentations.	Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis	Completed. See web page.

Goal 5	<i>Develop and implement recruitment strategies to promote the revised programs to high school students—focusing on students currently underrepresented in Design and Drafting/CAD courses.</i>				
Objective 5.A.	Implement strategies to increase female enrollment and retention in the Mechanical Design Program.				
Activities	Timeline		Outcome	Staff Responsible	Activity Completed
	Initiation	Completion			
1. Increase the number of female industry professionals serving On the Project Advisory Committee.	Fall 2002	Fall 2002	Female representation on the Project Advisory Committee is increased.	J.C. Malitzke Maria Vlamakis	Completed Fall 2002 <i>(Note: On going.)</i>
2. Hold information sessions for female high school students and parents to promote the Mechanical Design Program and discuss career options.	Fall 2002	Spring 2005	Information sessions focused on women in Mechanical Design careers are provided.	Maria Vlamakis	Completed. See web page. <i>(Note: On going.)</i>

3. Make multimedia presentations to two area “all girl” high schools to promote the Mechanical Design Program.	Fall 2002	Spring 2005	Multimedia presentations are made to the two area high schools.	Maria Vlamakis	Completed. See web page. (Note: On going.)
4. Establish a mentoring program for the female students enrolled in the Mechanical Design Program.	Fall 2003	Spring 2005	Mentoring program is established.	Maria Vlamakis	Completed. See web page. (Note: On going.)
Objective 5.B	Implement recruitment strategies promoting the Mechanical Design Technology and 3D Parametrics programs to area high school students.				
Activities	Timeline		Outcome	Staff Responsible	Activity Completed
	Initiation	Completion			
1. Sponsor Mechanical Design Technology Career Awareness Day(s) for area high schools.	Fall 2002	Spring 2005	Career awareness days are offered to all area high schools	Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis	Ongoing
2. Provide field trips to Argonne National Laboratory and post-secondary institutions for technology students at area high schools to gain industrial experience with 3D CAD software and discuss current and future industrial trends. Students underrepresented in the Mechanical Design Drafting/CAD career courses will be targeted.	Fall 2002	Spring 2005	Field trips to colleges and industry are provided.	Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis	Ongoing
3. Collect information annually concerning employment/salary/articulation options for the Mechanical Design/CAD programs.	Spring 2002	Spring 2005	Information is collected and organized for inclusion in all dissemination activities.	J.C. Malitzke	Ongoing
4. Develop web site providing information about the Mechanical Design/CAD programs.	Spring 2003	Fall 2003	Web site is developed and made available on-line.	Chuck Bales Rick Lapidus J.C. Malitzke Maria Vlamakis Kristine Christensen and Angela Spropolous	Completed. Web page is up and running. Revisions are weekly as needed. http://www.morainevalley.edu/cad
5. Provide information to high schools on Mechanical Design/CAD programs: <ul style="list-style-type: none"> ▪ informational brochures to technology instructors ▪ multimedia presentations to technology students 	Fall 2003	Spring 2005	Informational brochures and multimedia presentation are developed and made available annually to area high school instructors and students.	J.C. Malitzke	Ongoing
6. Advertise technology programs (degree and certificate) in local media.	Fall 2003	Spring 2005	Technology programs are advertised regularly in the local media.	J. C. Malitzke	Ongoing

