



Annual Program Review 2011-2012 - INSTRUCTIONAL

Division - Program

TECHNOLOGY & AVIATION – Machine Technology

Authorization

After the document is complete, it must be reviewed and submitted to the Program Review Committee by the Division Chair.

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 Date Received by Program Review: November 17, 2011

Overview of the Program

All degrees and certificates are considered programs. In addition, divisions may further delineate and define programs based on their assessment needs (developmental sequences, career track, etc).

Statement of Purpose – briefly describe in 1-3 sentences.

The Machine Technology program has been designed to prepare students to enter the field of Manufacturing as machinists and in related fields. Most students require training to advance in their fields or to gain employment.

Please list the **most significant achievement** accomplished since your last program review.

The purchase of additional equipment such as a 5-axis attachment for the CNC mill, coordinate measuring machine, and a live tool lathe. All of these prepare students to use the latest technology in the area of manufacturing.

List the current major strengths of your program

1. The Machine Technology and CAM labs are better equipped than most colleges.
2. The software is up-to-date and reflects what the industry is currently using.
3. Large student population compared to size of labs.

List the current weaknesses of your program

1. Space is limited in lab area and needs to be increased.
2. There is limited lab assistance to help with maintenance and supervision.

1.0. Trend Analysis

For each program within the division, use the data provided to indicate trends (e.g., steady, increasing, decreasing, etc.) for each of the following measures.

Program	Academic Year	FTEs Trend	FTEF Trend	WSCH / FTEF Trend	Full-Time % Trend	Fill Rate Trend	Success Rate Trend	Awards Trend
Machine Technology	2007-2008	47	3.0	491	79.7%	90.2%	93.6%	5
	2008-2009	47	2.9	518	86.9%	88.0%	86.7%	1
	2009-2010	54	2.9	603	86.7%	94.0%	93.3%	4
	2010-2011	50	3.2	496	73.1%	100.4%	93.4%	2
	% Change 4-Yr. Trend	+5.3% stable	+4.2% stable	+1.0% stable	-8.2% stable	+11.4% increasing	-0.2% stable	-60.0% decreasing
Technology & Aviation Division TOTAL	2007-2008	532	37.5	451	38.1%	73.1%	74.3%	91
	2008-2009	591	37.2	505	30.9%	69.6%	74.9%	85
	2009-2010	757	45.4	530	32.7%	82.1%	74.4%	59
	2010-2011	675	44.7	480	33.7%	91.7%	76.1%	76
	% Change 4-Yr. Trend	+26.9% increasing	+19.1% increasing	+6.5% stable	-11.6% decreasing	+25.5% increasing	+2.4% stable	-16.5% decreasing

1.1. Describe how these trends have affected student achievement and student learning:

- The fill rate is increasing. This indicates an improvement in the instruction and equipment as compared to other colleges.
- Machine Technology and CAM (Computer Aided Manufacturing) students are attending because they want relevant job training and for the most part are ignoring degree or transfer completions. This affects the awards trend.
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1.2. Is there other relevant quantitative/qualitative information that affects the evaluation of your program?

No.

2.0. Student Learning and Curriculum

Provide the following information on each department and program within the division.

List each Department within the Division as well each degree, certificate, or other program* within the Department	Active Courses with Identified SLOs		Active Courses Assessed		Course Sections Assessed		If this area has program outcomes have they been assessed? Yes or No
	n/n	%	n/n	%	n/n	%	
MACHINE TECHNOLOGY	0/20	0	0/20	0	0/	0	No

2.1. Please comment on the percentages above.

The courses in the Machine Technology and CAM (Computer Aided Manufacturing) departments have not have SLOs written for them. Over the next semester it is planned that all courses will be revised and have SLOs written.

- 2.2. a) Please provide a **link*** to all program assessment timelines here. This link could be to your division /department website, eLumen, etc.
 b) Briefly summarize any pedagogical or curricular elements of courses/programs that have been changed or will be changed as a result of developing assessment timelines and course/program alignment matrixes.
 c) Based on the program assessment timelines you have developed and the evidence you have gathered, please comment briefly on how far along your division/program is in the assessment process.

- a) There is no link to program assessment timelines.
 b) No courses have been changed due to alignment matrices.
 c) It is planned to have SLOs written for all classes by the end of the Spring 2012 semester.

- 2.3 a) Please provide a **link** to any program and/or relevant course assessment reports. Does the evidence from assessment reports show that students are achieving the desired learning outcomes?
 b) Please briefly summarize any pedagogical or curricular elements of courses and/or programs that have been changed or will be changed as a result of the assessments conducted.

- a) There is no link to course assessment reports.
 b) No courses have been changed due to assessment conducted.

2.4 Please list all courses which have been reviewed in the last academic year.
Note: Curriculum Review is required by the Chancellors Office every 6 years.

Mach 102, 103, 104. These courses have had their course content sections updated due to industry changes. They have not been submitted to curriculum and instruction.

2.5 Please list all degree/certificate programs within the division that were reviewed in the last academic year.

A new CAM (Computer Aided Manufacturing) Skill Award has been created this year.

2.6 For each program that was reviewed, please list any changes that were made.

No changes.

3.0. Reflection and Action Plans

3.1 What recent activities, dialogues, discussions, etc. have occurred to promote student learning or improved program/division processes?

Ongoing discussion with students (both current and former) regarding the course offerings. Full-time and adjunct instructors have connection with local industry and use this information to improve the programs.

3.2 Using the weaknesses, trends and assessment outcomes listed on the previous pages as a basis for your comments, please briefly describe your plans and/or modifications for program/division improvements

Plans or Modifications	Anticipated Improvements
In the future the Machine/CAM labs should be moved to a larger space.	This would allow for more maneuver space around the present equipment. It would also allow for the purchase of new equipment.
Additional lab assistance is needed to help with maintenance and supervision of students.	This would create a safer environment with the lab and also aid in keeping the equipment in proper working order.

Format Rev. 8.31.11

2011 PROGRAM REVIEW

TECH ED–Machine Technology
MasterCAM Software Upgrade

I:TE.MT-1

Section 4
Resource Request

Type of Request: ___ Facilities/Maintenance ___ Classroom Upgrades ___ New space
 ___ Instructional Equip. ___ Non-Instructional Equip ___ Conference/Travel ___ Training
 ___ Computer/Hdware X Software/Licenses ___ Supplies ___ Other

Mandatory: Is this request for one-time funding? ___ OR Does this request require ongoing funding? ___

If this is a repeat request, please list the Resource ID code or year requested: _____

Mark if the following apply to this request: ___ Health & Safety Issue ___ Legal Mandate
 ___ Accreditation Requirement X Contractual Requirement

4.1. Clearly describe the resource request.

MasterCAM software upgrade.
 Amount requested: \$ 4000.00

4.2. Justification and Rationale: What planning goal, core competency or course/program SLO does this request address? Use data from your report to support your request.

Required to maintain the current version of the software.

4.3. What measurable outcome will result from filling this resource request?

Students will be trained in the current version of the software to enable them to compete in the job market.

APPROVALS

AGENCY	DECISION						
The Program Review Committee has reviewed the data, outcomes and plans in the report and finds this request to be:	Well supported						
	Adequately supported						X
	Not supported						
	Reason:	Sect.1: Data		Sect.2: SLOs		Sect.3: Plans	Other:
Standing Committee Review of Resource Request Committee: Academic Affairs					Prioritization Score		

2011 PROGRAM REVIEW

TECH ED–Machine Technology
CNC Milling Machine

I:TE.MT-2

Section 4
Resource Request

Type of Request: ___ Facilities/Maintenance ___ Classroom Upgrades ___ New space
 ___X___ Instructional Equip. ___ Non-Instructional Equip ___ Conference/Travel ___ Training
 ___ Computer/Hdware ___ Software/Licenses ___ Supplies ___ Other

Mandatory: Is this request for one-time funding? ___ OR Does this request require ongoing funding? ___

If this is a repeat request, please list the Resource ID code or year requested: _____

Mark if the following apply to this request: ___ Health & Safety Issue ___ Legal Mandate
 ___ Accreditation Requirement ___ Contractual Requirement

4.1. Clearly describe the resource request.

CNC Milling Machine

 Amount requested: \$ 70,000

4.2. Justification and Rationale: What planning goal, core competency or course/program SLO does this request address? Use data from your report to support your request.

An additional milling machine is required due to the increasing number of students that are taking classes within the department.

4.3. What measurable outcome will result from filling this resource request?

The additional machine will allow students to complete their projects quicker and reduce waiting time for the equipment.

APPROVALS

AGENCY	DECISION					
The Program Review Committee has reviewed the data, outcomes and plans in the report and finds this request to be:	Well supported					
	Adequately supported					
	Not supported					
	Reason:	Sect.1: Data		Sect.2: SLOs		Sect.3: Plans
Standing Committee Review of Resource Request Committee: Academic Affairs						Prioritization Score

2011 PROGRAM REVIEW

**TECH ED–Machine Technology
Axis Machine**

I:TE.MT-3

Section 4 Resource Request

Type of Request: Facilities/Maintenance Classroom Upgrades New space
 Instructional Equip. Non-Instructional Equip Conference/Travel Training
 Computer/Hdware Software/Licenses Supplies Other

Mandatory: Is this request for one-time funding? OR Does this request require ongoing funding?

If this is a repeat request, please list the Resource ID code or year requested: _____

Mark if the following apply to this request: Health & Safety Issue Legal Mandate
 Accreditation Requirement Contractual Requirement

4.1. Clearly describe the resource request.

4th axis machine.

Amount requested \$ 8,000.00

4.2. Justification and Rationale: What planning goal, core competency or course/program SLO does this request address? Use data from your report to support your request.

The department currently does not have one of these machines. This would provide an additional opportunity for students to learn the latest technology.

4.3. What measurable outcome will result from filling this resource request?

Students will be better trained on the latest equipment which will have a positive effect on employability.

APPROVALS

AGENCY	DECISION					
The Program Review Committee has reviewed the data, outcomes and plans in the report and finds this request to be:	Well supported					
	Adequately supported					
	Not supported					X
	Reason:	Sect.1: Data		Sect.2: SLOs		Sect.3: Plans
Standing Committee Review of Resource Request Committee: Academic Affairs					Prioritization Score	