

Curriculum Development Form

Modify an Existing Program (Academic Award)

5/6/16



Program Name (Academic Award):

Computer Integrated Machining Diploma

CIP Code: _____

Type of Academic Award: AA AAS AFA AS Diploma Certificate

Current Location: Faribault North Mankato Proposed Location: Faribault North Mankato

Current Credits: 66 Proposed Credits: 66

Date of Proposal: 5/6/2016 Proposed Implementation Date: 8/1/2016

Contact Person: Jon Morgan, Chris DeVries, Bill Block

What is the modification being proposed?

Surface Grinding I & II were combined into a single new course (Surface Grinding I removed in previous redesign)

What impact will the modification have?

Program Plan/ course sequence - one course number & title changes (CIM 1205 --> CIM 1209)

Describe the rationale for this modification:

Adjusting based on previous change / prerequisite effect

Attach additional material if necessary

As Faculty Developer, by signing this *Modify an Existing Program* form, the Curriculum Committee is assured of the following (check marks required):

Prior to Preparing Documentation

- Initiation — idea was submitted to Department Chair(s) and Academic Dean/Director for discussion and support
- Explored existing program offerings to identify potential duplication
- Completed Intention Form

Continue the Curriculum Development Process

- Completed the comparison template outlining old program plan vs. new program plan, noting changes between the old and new
- Completed the WIDS Program Project, which includes outlining scope and sequence of program
Please Note: If courses do not already exist, the shell of each course must be created in WIDS before the WIDS Program Project can be completed
- Identified prerequisites (if any) for admission to the program
- Created measurable program student learning outcomes
- Proofread documentation for correct content
- Proofread documentation for grammatical and typographical errors
- Uploaded additional documentation to WIDS (comparison template, etc.)

Faculty Developer Signature

5-4-16

Date

As Primary Department Chair, by signing this *Modify an Existing Program* form, the Curriculum Committee is assured of the following (check marks required):

- Documentation through email and department meetings made available for other faculty and programs to provide feedback
- Proofread documentation for correct content and proper structure
- Proofread documentation for grammatical and typographical errors
- For LAS programs, signature of all LAS Department Chairs included
- For technical programs, the change was discussed at Advisory Committee meeting (provide meeting minutes)

N/A - Adjustment Only

I support this program plan I do not support this program plan — please provide reason(s):



Primary Department Chair Signature

5.4.14

Date

For all modified program, if Primary Department Chair does not support the modified program proposal, faculty developer can elevate the proposal to AASC for resolution.

For AA and AFA Degrees Only — As a LAS Department Chair, by signing this *Modify an Existing Program* form, the Curriculum Committee is assured of the following (check marks required):

- Documentation through email and department meetings made available for other faculty and programs to provide feedback

I support this program plan I do not support this program plan — please provide reason(s):

LAS Department Chair Signature Date

I support this program plan I do not support this program plan — please provide reason(s):

LAS Department Chair Signature Date

I support this program plan I do not support this program plan — please provide reason(s):

LAS Department Chair Signature Date

If all four LAS Department Chairs do not support the modified program proposal, faculty developer can elevate the proposal to AASC for resolution.

As Academic Dean/Director, by signing this *Modify an Existing Program* form, the Curriculum Committee is assured of the following (check marks required):

- Identified potential opportunities and impacts of the change on other programs/departments — DARS search
- Provided supporting documentation to populate Program Navigator

I support this program plan I do not support this program plan — please provide reason(s):

Bob Embacher 5/5/16
Academic Dean/Director Signature Date

If Academic Dean/Director does not support the modified program proposal, faculty developer can elevate the proposal to AASC for resolution.

Upload this signed form as a PDF to WIDS Shared Document folder — Curriculum Committee. Place signed original forms in Curriculum Committee mailbox.

Following Curriculum Committee support, this form is completed with final signatures.

Gale A. Heger 5/6/2016
Curriculum Committee Chair Signature Date

[Signature] 5-6-2016
Vice President of Student and Academic Affairs Signature Date

President Signature Date

The following steps are possible post-approval steps

Modify an Existing Program

— Credit length change

Upload to MnSCU Program Navigator

- Curriculum Committee Chair electronic approval
- Vice President of Student and Academic Affairs electronic approval
- President electronic approval
- Vice President of Student and Academic Affairs electronic approval (2nd)
- MnSCU reviews for final approval
- MnSCU grants approval

Student Affairs

- ISRS; DARS; eCatalog

Scope and Sequence for Perkins Programs of Study

Federal Dept. of Education review

Higher Learning Commissions (HLC) review

Modify an Existing Program

— No credit length change

Student Affairs (documentation posted on CC website)

- ISRS; DARS; eCatalog

Scope and Sequence for Perkins Programs of Study

South Central College
Computer Integrated Machining
CIM Diploma of Occupational Proficiency Crosswalk

Existing Award
Computer Integrated Machining
Diploma of Occupational Proficiency
AY 15-16
66 Credits

Proposed Award (New from Existing)
Computer Integrated Machining
Diploma of Occupational Proficiency
AY 16-17
66 Credits

Course #	Course Title	Credits	Action Step	Course #	Course Title	Credits
Required Technical Courses:				Required Technical Courses:		
CMAE Core	Maintenance Awareness	2		CMAE Core	Maintenance Awareness	2
CMAE Core	Quality Practices	2		CMAE Core	Quality Practices	2
CMAE Core	Safety	2		CMAE Core	Safety	2
CMAE Core	Manufacturing Processes & Production	2		CMAE Core	Manufacturing Processes & Production	2
MATH 1050	Mathematics for Technical Careers	3		MATH 1050	Mathematics for Technical Careers	3
CIM 1100	Interpreting Engineering Drawings	2		CIM 1100	Interpreting Engineering Drawings	2
CIM 1102	CNC Programming I	2		CIM 1102	CNC Programming I	2
CIM 1103	Lathe Turning I	2		CIM 1103	Lathe Turning I	2
CIM 1104	Vertical Milling I	2		CIM 1104	Vertical Milling I	2
CIM 1106	Machine Tool Theory I	1		CIM 1106	Machine Tool Theory I	1
CIM 1107	Internship	2		CIM 1107	Internship	2
CIM 1150	Machining Computations	2		CIM 1150	Machining Computations	2
CIM 1201	Interpreting Engineering Drawings II	2		CIM 1201	Interpreting Engineering Drawings II	2
CIM 1202	CNC Programming II	3		CIM 1202	CNC Programming II	3
CIM 1203	Lathe Turning II	3		CIM 1203	Lathe Turning II	3
CIM 1204	Vertical Milling II	2		CIM 1204	Vertical Milling II	2
CIM 1205	Surface Grinding II	2	<i>New Course</i>	CIM 1209	Surface Grinding	2
CIM 1206	Machine Tool Theory II	2		CIM 1206	Machine Tool Theory II	2
CIM 2101	Interpreting Engineering Drawings III	2		CIM 2101	Interpreting Engineering Drawings III	2
CIM 2102	CNC Programming III	4		CIM 2102	CNC Programming III	4
CIM 2106	Jigs and Fixtures and Metallurgical Process	2		CIM 2106	Jigs and Fixtures and Metallurgical Process	2
CIM 2108	Applications II	4		CIM 2108	Applications II	4
CIM 2202	CNC Programming IV	4		CIM 2202	CNC Programming IV	4
CIM 2206	Mold & Die	2		CIM 2206	Mold & Die	2
CIM 2211	CIM Capstone (variable credit 2-4)	4		CIM 2211	CIM Capstone (variable credit 2-4)	4
Total Technical Credits		60		Total Technical Credits		60

Required Liberal Arts & Sciences

	Credits
COMM 120 Small Group Communication	3
OR	
COMM 140 Interpersonal Communication	3
PHYS 101 Introductory Physics	

TOTAL LAS CREDITS	6
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Total Credits	66
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Required Liberal Arts & Sciences

	Credits
COMM 120 Small Group Communication	3
OR	
COMM 140 Interpersonal Communication	3
PHYS 101 Introductory Physics	

TOTAL LAS CREDITS	6
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Total Credits	66
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5/6/16



Curriculum Development Form

Modify an Existing Program (Academic Award)

Program Name (Academic Award):
Computer Integrated Machining AAS Degree CIP Code: _____

Type of Academic Award: AA AAS AFA AS Diploma Certificate

Current Location: Faribault North Mankato Proposed Location: Faribault North Mankato

Current Credits: 72 Proposed Credits: 72

Date of Proposal: 5/6/2016 Proposed Implementation Date: 8/1/2016

Contact Person: Jon Morgan, Chris DeVries, Bill Block

What is the modification being proposed? _____
Surface Grinding I & II were combined into a single new course (Surface Grinding I removed in previous redesign)

What impact will the modification have? _____
Program Plan/ course sequence - one course number & title changes (CIM 1205 --> CIM 1209)

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Faculty Developer Signature

5-4-16
Date

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- For technical programs, the change was discussed at Advisory Committee meeting (provide meeting minutes) N/A - Adjustment only

I support this program plan I do not support this program plan — please provide reason(s):

[Handwritten Signature] 5-4-16
Primary Department Chair Signature Date

For all modified program, if Primary Department Chair does not support the modified program proposal, faculty developer can elevate the proposal to AASC for resolution.

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LAS Department Chair Signature Date

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LAS Department Chair Signature Date

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As Academic Dean/Director, by signing this *Modify an Existing Program* form, the Curriculum Committee is assured of the following (check marks required):

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- Provided supporting documentation to populate Program Navigator

I support this program plan I do not support this program plan — please provide reason(s):

Barry Embacher 5/5/16
Academic Dean/Director Signature Date

If Academic Dean/Director does not support the modified program proposal, faculty developer can elevate the proposal to AASC for resolution.

Upload this signed form as a PDF to WIDS Shared Document folder — Curriculum Committee. Place signed original forms in Curriculum Committee mailbox.

Following Curriculum Committee support, this form is completed with final signatures.

Gale G. Bigler 5/6/2016
Curriculum Committee Chair Signature Date

[Signature] 5-6-2016
Vice President of Student and Academic Affairs Signature Date

President Signature Date

The following steps are possible post-approval steps

Modify an Existing Program

— Credit length change

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Student Affairs

- ISRS; DARS; eCatalog

Scope and Sequence for Perkins Programs of Study

Federal Dept. of Education review

Higher Learning Commissions (HLC) review

Modify an Existing Program

— No credit length change

Student Affairs (documentation posted on CC website)

- ISRS; DARS; eCatalog

Scope and Sequence for Perkins Programs of Study

South Central College
Computer Integrated Machining
CIM AAS Degree Crosswalk

Existing Award
Computer Integrated Machining
AAS Degree
AY 15-16
72 Credits

Proposed Award (New from Existing)
Computer Integrated Machining
AAS Degree
AY 16-17
72 Credits

Course #	Course Title	Credits	Action	Course #	Course Title	Credits
Required Technical Courses: AAS Degree				Required Technical Courses: AAS Degree		
CMAE Core	Maintenance Awareness	2		CMAE Core	Maintenance Awareness	2
CMAE Core	Quality Assurance	2		CMAE Core	Quality Assurance	2
CMAE Core	Safety	2		CMAE Core	Safety	2
CMAE Core	Manufacturing Processes & Production	2		CMAE Core	Manufacturing Processes & Production	2
CIM 1102	CNC Programming I	2		CIM 1102	CNC Programming I	2
CIM 1103	Lathe Turning I	2		CIM 1103	Lathe Turning I	2
CIM 1104	Vertical Milling I	2		CIM 1104	Vertical Milling I	2
CIM 1106	Machine Tool Theory I	1		CIM 1106	Machine Tool Theory I	1
CIM 1150	Machining Computations	2		CIM 1150	Machining Computations	2
CIM 1201	Interpreting Engineering Drawings II	2		CIM 1201	Interpreting Engineering Drawings II	2
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CIM 1203	Lathe Turning II	3		CIM 1203	Lathe Turning II	3
CIM 1204	Vertical Milling II	2		CIM 1204	Vertical Milling II	2
CIM 1205	Surface Grinding II	2	New Course	CIM 1209	Surface Grinding	2
CIM 1206	Machine Tool Theory II	2		CIM 1206	Machine Tool Theory II	2
CIM 1207	Interpreting Engineering Drawings	2		CIM 1207	Interpreting Engineering Drawings	2
CIM 2101	Interpreting Engineering Drawings III	2		CIM 2101	Interpreting Engineering Drawings III	2
CIM 2103	CNC Programming III	4		CIM 2103	CNC Programming III	4
CIM 2106	Jigs and Fixtures and Metallurgical Process	2		CIM 2106	Jigs and Fixtures and Metallurgical Process	2
CIM 2109	Applications II	4		CIM 2109	Applications II	4
CIM 2204	CNC Programming IV	4		CIM 2204	CNC Programming IV	4
CIM 2205	Advanced Quality & Inspection	4		CIM 2205	Advanced Quality & Inspection	4
CIM 2206	Mold & Die	2		CIM 2206	Mold & Die	2
CIM 2211	CIM Capstone (variable credit 2-4)	2		CIM 2211	CIM Capstone (variable credit 2-4)	2
Total Credits		57		Total Credits		57
Required Liberal Arts & Sciences				Required Liberal Arts & Sciences		
To complete an AAS Degree, students must complete 15 MnTC credits from 3 of the 10 MnTC Goal areas.		Credits		To complete an AAS Degree, students must complete 15 MnTC credits from 3 of the 10 MnTC Goal areas.		Credits
COMM 120	Small Group Communication	3		COMM 120	Small Group Communication	3
OR				OR		
COMM 140	Interpersonal Communication	3		COMM 140	Interpersonal Communication	3
PHYS 101	Introductory Physics			PHYS 101	Introductory Physics	
HUM 100	Critical Thinking	3		HUM 100	Critical Thinking	3
OR				OR		
PHIL 100	Ethics in Society	6		PHIL 100	Ethics in Society	6
LAS elective				LAS elective		
TOTAL LAS CREDITS		15		ELECTIVE LIBERAL ARTS & SCIENCE CREDITS		15
Select an additional credits from the MnTC goal areas to total the 15 credits required.				Select an additional credits from the MnTC goal areas to total the 15 credits required.		