# MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

- Dr. Jack Rudolph Dr. Martin Stone Dr. Bruce Schulte Dr. Phil Lienesch Dr. Cathleen Webb Dr. Hemali Rathnayake Dr. Les Pesterfield
- Dr. James Gary Dr. Rong Yang Dr. Julie Ellis Dr. Warren Campbell Dr. David Keeling Dr. Xingang Fan
- Dr. Greg Arbuckle Dr. John Khouryieh Dr. Bruce Kessler Dr. Richard Schugart Dr. Keith Andrew Dr. Elizabeth Lemerise Dr. Matthew Shake

### FROM: Kenneth Crawford, Chair

# SUBJECT: Agenda for Friday, March 7, 2014 – Special Electronic Meeting

A. OLD BUSINESS:

No old business.

# **B. NEW BUSINESS:**

### Action Items

### **Department of Architectural Manufacturing Sciences**

I. Proposal to Revise a Program

a. Ref. 506, Advanced Manufacturing, 75 hrs.

# C. OTHER BUSINESS

#### Proposal Date: February 6, 2014

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Revise A Program (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

### 1. Identification of program:

- 1.1 Current program reference number: 506
- 1.2 Current program title: Advanced Manufacturing
- 1.3 Credit hours: 75

**2.** Identification of the proposed program changes: To offer the option of completing a degree in advanced manufacturing entirely online by adding the AMS module classes.

- Technical Core add AMS 120-M1, AMS 120-M2, and AMS 120-M3
- Technical Core add AMS 205-M1, AMS 205-M2, and AMS 205-M3
- Technical Core add AMS 490-M1, AMS 490-M2, and AMS 490-M3
- Technical Core add AMS 328-M1, AMS 328-M2, and AMS 328-M3
- Management Core add AMS 310-M1, AMS 310-M2, and AMS 310-M3
- Management Core add AMS 356-M1, AMS 356-M2, and AMS 356-M3
- Management Core add AMS 371-M1, AMS 371-M2, and AMS 371-M3
- Management Core add AMS 390-M1, AMS 390-M2, and AMS 390-M3
- Management Core add AMS 394-M1, AMS 394-M2, and AMS 394-M3
- Management Core add AMS 396-M1, AMS 396-M2, and AMS 396-M3
- Management Core add AMS 430-M1, AMS 430-M2, and AMS430-M3
- Advanced Manufacturing Core add AMS 217-M1, AMS 217-M2, and AMS 217-M3
- Advanced Manufacturing Core add AMS 227-M1, AMS 227-M2, and AMS 227-M3
- Advanced Manufacturing Core add AMS 342-M1, AMS 342-M2, and AMS 342-M3
- Advanced Manufacturing Core add AMS 343-M1, AMS 343-M2, and AMS 343-M3
- Advanced Manufacturing Core add AMS 352-M1, AMS 352-M2, and AMS 352-M3
- Advanced Manufacturing Core add AMS 370-M1, AMS 370-M2, and AMS 370-M3
- Remove advisor-approved electives from advanced manufacturing major
- Decrease the number of hours in the advanced manufacturing core from 29-30 to 18
- Decrease the number of hours in the advanced manufacturing major from 75 to 64

Advanced Manufacturing	(Old)	75	Advanced Manufacturing	(New)	64
Technical Core: 19	Dhrs		Technical Core: 19hrs		
Introductory Accounting or Basic Marketing Concepts or Personal Finance	ACCT200 or MKT 220 or FIN 161	3	Introductory Accounting or Basic Marketing Concepts or Personal Finance	ACCT200 or MKT 220 or FIN 161	3
Basic Electricity	AMS120	3	Basic Electricity	AMS120 or (AMS 120-M1, AMS 120-M2, and AMS 120-M3)	3

# 3. Detailed program description:

Architectural Drafting or CADD for Manufacturing	AMS 163/205	3	Architectural Drafting or CADD for Manufacturing	AMS 163/205 or (AMS 205- M1, AMS 205- M2, and AMS 205-M3)	3
Industrial Statistics	AMS271	3	Industrial Statistics	AMS271	3
Mentored Research Experience or Internship I	UC 400 or AMS398	1	Mentored Research Experience or Internship I	UC 400 or AMS398	1
Senior Research Robotics and Machine Vision	AMS490	3	Senior Research Robotics and Machine Vision	AMS490 or (AMS 490-M1, AMS 490-M2, and AMS 490-M3) AMS 328 or (AMS 328-M1, AMS 328-M2, and AMS 328-M3)	3
	27hrs		Management Core: 27hrs	520-11157	5
Work Design/Ergonomics	AMS310	3	Work Design/Ergonomics	AMS310 or (AMS 310-M1, AMS 310-M2, and AMS 310-M3)	3
Systems Design and Operation	AMS356	3	Systems Design and Operation	AMS356 or (AMS 356-M1, AMS 356-M2, and AMS 356-M3)	3
Project Management	AMS390	3	Project Management	AMS390 or (AMS 390-M1, AMS 390-M2, and AMS 390-M3)	3
Technology Mgmt./Sup./Team Blding	AMS430	3	Technology Mgmt./Sup./Team Blding	AMS430 or (AMS 430-M1, AMS 430-M2, and AMS 430-M3)	3
Basic Business Communications or Advanced Public Speaking or Persuasion or Interpersonal Communication or Group Decision Making or Organizational Communication or Business Communication Fundamentals	BUS 214C or COMM 345 or COMM 346 or COMM 349 or COMM 362 or MGT 361	3	Basic Business Communications or Advanced Public Speaking or Persuasion or Interpersonal Communication or Group Decision Making or Organizational Communication or Business Communication Fundamentals	BUS 214C or COMM 345 or COMM 346 or COMM 349 or COMM 362 or MGT 361	3
Legal Environment of Business or Business Law or MGMT of Nonprofit Org	MGT 200 or MGT301 or MGT 333	3	Legal Environment of Business or Business Law or MGMT of Nonprofit Org	MGT 200 or MGT301 or MGT 333	3
Quality Assurance	AMS371	3	Quality Assurance	AMS371 or (AMS 371-M1, AMS 371-M2, and AMS 371-M3)	3
Lean Manufacturing	AMS 394	3	Lean Manufacturing	AMS 394 or (AMS 394-M1, AMS 394-M2,	3

		<u> </u>		and AMS		
				394-M3)		
				AMS 396 or		
				(AMS 396-M1,		
				AMS 396-M2,		
				and AMS		
Intro to Supply Chain Management	AMS 396	3	Intro to Supply Chain Management	396-M3)	3	
Advanced Manufacturing Core: 29-30hrs			Advanced Manufacturing Core: 18hrs			
				AMS217 or		
				(AMS 217-M1,		
				AMS 217-M2,		
				and AMS		
Industrial Materials or	AMS217		Industrial Materials or	217-M3) or		
Applied Strength of Materials	or CM337	3	Applied Strength of Materials	CM337	3	
				AMS227 or		
				(AMS 227-M1,		
				AMS 227-M2,		
				and AMS		
Manufacturing Methods	AMS227	3	Manufacturing Methods	227-M3)	3	
				AMS342 or		
				(AMS 342-M1,		
				AMS 342-M2,		
				and AMS		
Manufacturing Operations	AMS342	3	Manufacturing Operations	342-M3)	3	
5 1			<b>3</b> 1	AMS343 or		
				(AMS 343-M1,		
				AMS 343-M2,		
				and AMS		
Automated Systems	AMS343	3	Automated Systems	343-M3)	3	
	7			AMS352 or	-	
				(AMS 352-M1,		
				AMS 352-M1,		
				and AMS		
	AMS352	3	Food Processing: Unit Operation		3	
Food Processing: Unit Operation	AIVISSSZ	ა	Food Processing: Unit Operation	352-M3)	3	
				AMS370 or		
				(AMS 370-M1,		
				AMS 370-M2,		
				and AMS		
Computer Numeric Control	AMS370	3	Computer Numeric Control	370-М3)	3	
Advisor Approved Electives	L	11-12		ļļ		
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			Additional Daguirements in Maiar	MATH 117, or HIGHER	•	
	I		Additional Requirements in Major	HIGHER	3	

### 4. Rationale for the proposed program change:

- All modularization of courses Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the Manufacturing field for site based individuals.
- Remove advisor-approved electives from advanced manufacturing major This is to allow students to bring in coursework that has been acquired through other departments across the institution as well as transfer credits
- Decrease advanced manufacturing core from 29-30 hours to 18 hours this reflects the removal of advisor-approved electives from the major
- **Decrease advanced manufacturing major hours from 75 to 64** due to the removal of the advisorapproved electives from the Advanced Manufacturing major

5. Effective Catalog Year: 2014-2015

# 6. Dates of prior committee approvals:

Architectural and Manufacturing Sciences 2-7-2014

OCSE Curriculum Committee

Undergraduate Curriculum Committee

University Senate