

SOUTH DAKOTA BOARD OF REGENTS

ACADEMIC AFFAIRS FORMS

New Course Request

	Jerome J. Lohr College of Engineering/Department of		
SDSU	Construction and Concrete Industry Management		
Institution	Division/Department		
Dennis D. Hedge		4/24/2024	
Institutional Approval Signature		Date	

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
MNET 467	Principles of Surface Mount Technology	3
MNET 567	Principles of Surface Mount Technology	3

Course Description

This course introduces students to automated surface mount technology circuit board assembly. Students will be provided an overview of the print, placement, reflow, and inspections processes involved. In depth discussion of process parameters, typical defects and how to correct them will be presented.

MNET 467 Pre-requisites or Co-requisites

Prefix & No.	Course Title	Pre-Req/Co-Req?
MNET 367	Production Strategy	Pre-Req
OM 462	Quality Management	Pre-Req

Registration Restrictions

None

Section 2. Review of Course

2.1. Will this be a unique or common course?

☑ Unique Course

Prefix & No.	Course Title	Credits	
MNET 231	Manufacturing Processes	3	
MNET 367	Production Strategy	3	

Provide explanation of differences between proposed course and existing system catalog courses below:

MNET 231 and MNET 367 are introductory courses that cover a wide range of manufacturing processes and strategies. The proposed course, MNET 467-567 Principles of Surface Mount Technology, will introduce students to automated surface mount technology circuit board assembly.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

⊠ No. Schedule Management, explain below: The Surface Mount Technology Education consortium will be providing guest speakers and access to an industrial manufacturing process line for course activities. SDSU will provide an instructor to coordinate the course.

- **3.2. Existing program(s) in which course will be offered:** Surface Mount Technology Graduate Certificate, Surface Mount Technology Minor
- 3.3. Proposed instructional method by university (as defined by AAC Guideline 5.4): R Lecture
- **3.4. Proposed delivery method by university** (as defined by AAC Guideline 5.5): 001 Face to Face

3.7. Will grade for this course 3.8. Will section enrollment b 3.9. Will this course equate (i. other unique or common course Inventory Report? □ 3.10. Is this prefix approved f Section 4. Department an Affairs) 4.1. University Department: 0 4.2. Banner Department Code 4.3. Proposed CIP Code: 15.0	e be limited to S/U (pass/fail)? The capped? Yes, max per section i.e., be considered the same course reses in the common course system is Noted to Some interesting in the common course system is noted in the common course system in the common course system is noted in the course course course in the course course course in the course course course course in the course c	Yes ⊠ No : 20 □ No e for degree completion) with any in database in Colleague and the l by University Academic Management
Is this a new CIP code f	for the university? ⊠ Yes □ No NEW COURSE REQUE	
Suppor	rting Justification for On-Ca	
Suzette Burckhard	Suzette Burckhard	3/26/2024
Request Originator	Signature	Date
Suzette Burckhard	Suzette Burckhard	3/26/2024
Department Chair	Signature	Date
Suzette Burckhard	Suzette Burckhard	3/26/2024
School/College Dean	Signature	Date
automated surface mount techning increasing due to the increase in Analysis, and Reporting Technology Knowledge of this process which 2. Note whether this course is:	ology circuit board assembly. The printed circuit boards in consumer ology), devices. The MNET 467-56 in will enhance their employment op Required Blective	•
affected by this course? None	n in which this course is offered, w	what other majors/programs will be
	se, indicate how the distinction bet ferent assessments compared to un	ween the two levels will be made. dergraduate students as well as more
Carrie Steinlicht, Senior Lecture		•
This lecture course does not request. Note whether adequate library a	<u>-</u>	
• •	courses currently being offered on t	his campus? ☐ Yes
10. If this course may be offered for be determined.	or variable credit, explain how the	amount of credit at each offering is to

N/A