

# MICHIGAN STATE UNIVERSITY

August 23, 2019

## MEMORANDUM

TO: Dr. Mark Largent, Interim Associate Provost for Undergraduate Education and Dean of Undergraduate Studies

FROM: Dr. John Gaboury, Associate Provost for Academic Services, Enrollment Management, and Academic Initiatives

RE: Request to Change the Admission to the College Requirements in the College of Engineering

For Transmittal to the University Committee on Undergraduate Education (UCUE)

The request referenced above is being sent to you for action by the University Committee on Undergraduate Education (UCUE).

### UCUE Response Requested:

Please ask the UCUE to consider the request referenced above. Please mail the related materials referenced under the heading Attachments at the end of this memorandum to the members of the UCUE.

The academic program and course requests referenced above will be included on the agenda for the September 12, 2019 meeting of Subcommittee A, University Committee on Curriculum (UCC). Requests that are approved by Subcommittee A on September 12 will be before the Full Committee, UCC, for action on September 26, 2019. Requests that are approved by the Full Committee on September 26 will be included in the October 8, 2019, Report of the UCC to the Faculty Senate.

If you have any questions about this memorandum or the attached materials, please call me at 5-8420.

Thank you for your help.

### Attachments:

1. Entry for the September 12, 2019 meeting of Subcommittee A.
2. Request for Changes in an Academic Program forms dated April 26, 2019: Admission to the College Requirements in the College of Engineering and attachments.
3. Draft, of the work copy for the Academic Programs section of the University catalog: Admission to the College, page 1 .

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## University Curriculum and Catalog

Hannah Admin. Building  
426 Auditorium Road  
Room 439  
East Lansing, MI 48824

517-355-8420  
Fax: 517-355-9601

## COLLEGE OF ENGINEERING

1. Request to change the **Admission to the College** statement in the College of Engineering. The University Committee on Undergraduate Education (UCUE) will consider this request.
  - a. Under the heading **Admission to the College** make the following changes:
    - (1) Replace item 4. with the following:

Completion of Chemistry 141 or 151 or approved substitution or waiver.  
Computational Data Science and Computer Science majors are not required to fulfill this requirement.

Effective Spring 2020.



## Michigan State University Office of the Registrar

Program Name: Engineering - Admission to the College		Program Request ID: 3909
Degree: BS	Sequence Number: 5	
Effective Dates: Spring 2020 - Open	Status: Interim	Initial Action: Change
Requested Date: 3/26/2019 11:43:03 AM		
<p><b>1. Department/School/College:</b> 16256 .... College of Engineering</p> <p><b>2. Name of Program:</b> Engineering - Admission to the College</p> <p><b>3. Name of Degree:</b> BS</p> <p><b>4. Type of Program:</b> Major</p> <p><b>5. Effective Start Semester:</b> Prev: Fall 2018 New: Spring 2020</p> <p><b>6. Target student audience for the program:</b> Undergraduate engineering students</p> <p><b>7. Enrollment:</b> What is the expected enrollment per year: 700  What is the minimum enrollment acceptable: 400</p> <p><b>8. Source of budget for the program:</b> To align academic planning and curricular change, ALL requests for NEW funds must be included in the College's annual planning letter. Provost approval of new funds and the effective date for the new program must align. If funding is not approved, then the program request will not be forwarded to Faculty Senate.  College reallocation</p>		

If new funds, was this request included in the College's annual planning letter? Indicate yes or no. If no, then this is a department or college fund reallocation (If the program is implemented, no additional resources are required.).

**9. Projected Costs as compared to other programs in unit:**

Same

**10. Staff requirement:**

How many additional staff will be required: 0

Who will provide the primary instruction. Describe any external linkages(industry, government, etc.):

**11. Will additional equipment be required:**

Approximate cost: 0

Source of funding:

**12. Will additional library materials be required:**

Approximate cost: 0

Source of funding: current resources are sufficient

**13. Will additional space be required:**

Type:

Approximate amount:

**14. If the program requirements contain a named concentration, do you wish for the concentration to be noted on the student's transcript?:**

No

**15. Detailed Description:**

Admission to the College of Engineering and a specific major provides access to enroll in certain courses required for the major. Enrollments in the College of Engineering are limited.

Admission is based on the cumulative grade-point average of all courses taken and a grade-point average calculated on mathematics, physical and biological sciences, and engineering courses.

For additional information, students should contact the Office of the Associate Dean for Undergraduate Studies, College of Engineering.

Minimum criteria for admission to the college are:

1. Completion of at least 28 credits earned after matriculation to Michigan State University.
2. Completion of Mathematics 132 and 133 with a minimum grade of 2.0 in each course.
3. A minimum grade-point average of 2.0 in all mathematics courses.
4. Completion of Chemistry 141 or 151 or approved substitution or waiver. Computational Data Science and Computer Science majors are not required to fulfill this requirement.
5. Completion of Physics 183.

6. Completion of Engineering 102 or Computational Math Science and Engineering 202 or Computer Science and Engineering 231 or Computer Science and Engineering 220 or approved substitution or waiver.
7. Completion of Engineering 100.

Freshmen and sophomores who have declared specific engineering majors (excluding Engineering Exploratory) are automatically reviewed at the end of every semester, and are either admitted or informed of their progress. Others may apply for admission during each semester, and applications will be reviewed after the end of each semester. Students must be admitted to a degree-granting college at the time they have completed 56 credits.

**16. Are there admissions requirements for this program?:**

Grade or grade-point average requirements and if so in which course(s), portfolio requirement, audition, essay, etc. If there are not admission requirements other than those required by the University policy indicate "none".

Prev: Admission to the College of Engineering and a specific major provides access to enroll in certain courses required for the major. Enrollments in the College of Engineering are limited. Admission is based on the average of the cumulative grade-point average of all courses taken and a grade-point average calculated on mathematics, physical and biological sciences, and engineering courses. For additional information, students should contact the Office of the Associate Dean for Undergraduate Studies, College of Engineering. Minimum criteria for admission to the college are: Completion of at least 28 college credits earned after matriculation to Michigan State University. Completion of Mathematics 132 and 133. A minimum grade of 2.0 in all mathematics courses. Completion of Chemistry 141 or 151 or approved substitution or waiver. Computer Science majors are not required to fulfill this requirement. Completion of Physics 183. Completion of Engineering 102 or Computer Science and Engineering 231 or Computer Science and Engineering 220 or approved substitution or waiver. Completion of Engineering 100. Freshmen and sophomores who have declared specific engineering majors (excluding Engineering No-Preference) are automatically reviewed at the end of every semester, and are either admitted or informed of their progress. Others may apply for admission during each semester, and applications will be reviewed after the end of each semester. Students must be admitted to a degree-granting college at the time they have completed 56 credits.

New: Minimum weighted GPA depending on major

**17. Type(s) of change(s):**

Adding Computational Data Science requirements to #15

**18. Students who will be affected by the proposed changes:**

Computational Data Science majors

**19. Will the proposed change(s) have a negative impact on students? If so, which ones?:**

Describe impact and explain what accommodations will be made:

**20. Reason(s) for change(s):**

Addition of a new major, Computational Data Science and it's requirements.

**DEPARTMENT LEVEL APPROVAL STATUS**

Approved: College of Engineering  
4/11/2019 12:04:21 PM by Mary Pease for Amanda Idema, Acting Associate Dean

**SIGNOFFS STATUS**

No Response by: College of Natural Science

Signed Off: Department of Chemistry  
4/11/2019 12:18:42 PM by Lynmarie Posey for Robert E. Maleczka, Chairperson

No Response by: Department of Computational Mathematics, Science, and Engineering

No Response by: Department of Computer Science and Engineering

No Response by: Department of Mathematics

No Response by: Department of Physics and Astronomy

**COLLEGE LEVEL APPROVAL STATUS**

Approved: College of Engineering  
4/26/2019 10:43:40 AM by Amanda Idema for Amanda Idema, Acting Associate Dean

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### Admission to the College

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5. Completion of Physics 183.
6. Completion of Engineering 102 or Computer Science and Engineering 231 or Computer Science and Engineering 220 or approved substitution or waiver.
7. Completion of Engineering 100.

*Computational Data Science and*

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