Please verify your data for New Curriculum Course Request for department: ME; college: A. Go to the following URL to complete your worklist items: https://bwfp1.cc.wmich.edu:7102/wfbprod

Date of request: 27-SEP-2019

Request ID: A-2019-ME-26

College: A

Department: ME

Initiator name: Peter Gustafson

Initiator email: peter.gustafson@wmich.edu

Proposed effective term: 202040

Does course need General Education approval?: N

Will course be used in teacher education?: N

If 5000 level course, prerequisites apply to: U

Proposed course data:

New Course AE3200

New course selected: This new course is not seeking approval as a general education course.

1. Proposed course prefix and number:

   AE3200

2. Proposed credit hours:

   3

3. Proposed course title:

   Private Pilot Flight Training

4. Proposed course prerequisites:

   none

5. Proposed course corequisites:

   none

6. Proposed course prerequisites that may be taken concurrently (before or at the same time):

   none

7. Minimum grade for prerequisites (default grades are D for Undergrad and C for Grad):

   none
8. Major and/or minor restrictions:
Include

9. List all the four-digit major and/or minor codes (from Banner) that are to be included or excluded:
ASPJ

10. Classification restrictions:
Not Applicable

11. List all the classifications (freshman, sophomore, junior, senior) that are to be included or excluded:
none

12. Level restriction:
Include

13. List the level (undergraduate, graduate) that is to be included or excluded.
UG

14. Do prerequisites and corequisites for 5000-level courses apply to undergraduates, graduates, or both?
Not Applicable

15. Is this a multi-topic course?
No

16. Proposed course title to be entered in Banner:
Private Pilot Flight Training

17. Is this course repeatable for credit?
No

18. Is this course mandatory credit/no credit?
No

19. Select class type:
Supervision or Practicum

20. How many contact hours per week for this course?
3

A. Please choose Yes or No to indicate if this class is a Teacher Education class:
No

B. Please choose the applicable class level:
Undergraduate

C. Please respond Yes if this is a current general education course and/or a course being submitted for the new WMU Essential Studies program. Please respond No if it is neither.
No

D. Explain briefly and clearly the proposed improvement.
This course number would permit external private pilot training activities to be used as an elective in the aerospace engineering program. Specifically, the credits would be awarded for successful completion of FAA private pilot license or advanced or recurrent training during the degree program.

E. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.).
The value of this course is a substantial increase in student knowledge of aircraft performance, limitations, operation, instrumentation, regulation, and also how the national airspace operates, how air traffic control interacts with flight operations, and about the atmosphere and its impact on aviation.

F. List the student learning outcomes for the proposed course or the revised or proposed major, minor, or concentration. These are the outcomes that the department will use for future assessments of the course or program.
- knowledge of aircraft performance
- knowledge of aircraft limitations
- knowledge of aircraft instrumentation
- knowledge of aircraft, airspace, and ground movement regulations
- knowledge of the structure and rules of the national airspace
- knowledge of the role of air traffic control
- knowledge of the atmosphere and its impact on aerospace applications

G. Describe how this curriculum change is a response to student learning assessment outcomes that are part of a departmental or college assessment plan or informal assessment activities. This course is being added as a result of informal discussion with current students and alumni who have expressed desire to have additional practical knowledge of aircraft systems and performance.

H. Effect on other colleges, departments or programs. If consultation with others is required, attach evidence of consultation and support. If objections have been raised, document the resolution. Demonstrate that the program you propose is not a duplication of an existing one.
There is no negative impact. The training would be done external to WMU and credit would only be granted after review of proof of successful completion. The review would be done by a designated cognizant faculty member.

I. Effect on your department's programs. Show how the proposed change fits with other departmental offerings. This would strengthen the aerospace engineering program. There is no other similar offering in the college.

J. Effects on enrolled students: are program conflicts avoided? Will your proposal make it easier or harder for students to meet graduation requirements? Can students complete the program in a reasonable time? Show that you have considered scheduling needs and demands on students' time. If a required course will be offered during summer only, provide a rationale.
There are only positive impacts on enrolled students. It is an additional elective which is not required.

K. Student or external market demand. What is your anticipated student audience? What evidence of student or market demand or need exists? What is the estimated enrollment? What other factors make your proposal beneficial to students?
The university of Michigan Aerospace Engineering program offers similar credit. It is considered to be of recruiting value to the program as students desire this type of training.

L. Effects on resources. Explain how your proposal would affect department and University resources, including faculty, equipment, space, technology, and library holdings. Tell how you will staff additions to the program. If more advising will be needed, how will you provide for it? How often will course(s) be offered? What will be the initial one-time costs and the ongoing base-funding costs for the proposed program? (Attach additional pages, as necessary.)
There is no negative impact. The training would be done external to WMU and credit would only be granted after review of proof of successful completion. The review would be done by a designated cognizant faculty member.

M. With the change from General Education to WMU Essential Studies, this question is no longer used.

For courses requesting approval as a WMU Essential Studies course, a syllabus identifying the student learning outcomes and an action plan for assessing the student learning outcomes must be attached in the Banner Workflow system.
Not Applicable

N. (Undergraduate proposals only) Describe, in detail, how this curriculum change affects transfer articulation for Michigan community colleges. For course changes, include detail on necessary changes to transfer articulation from
Michigan community college courses. For new majors or minors, describe transfer guidelines to be developed with Michigan community colleges. For revisions to majors or minors, describe necessary revisions to Michigan community college guidelines. Department chairs should seek assistance from college advising directors or from the admissions office in completing this section. There is no impact on transfer credits. A student who has successfully completed this training externally while enrolled at WMU can be awarded this credit.

O. Current catalog copy:
This course is not currently in the catalog

P. Proposed catalog copy:
Credits can be granted to students who obtain the FAA-issued license for private pilot, Aircraft Single-Engine Land (ASEL) or helicopter. More advanced FAA-issued ratings such as instrument, instructor, instrument instructor and multi-engine are acceptable but cannot be used to obtain additional credit. To obtain the credits, students must bring their pilot's log book(s) and their pilot's license to the cognizant Aerospace engineering faculty member for approval. Credit for a pilot's license is offered to enhance the traditional Aerospace Engineering curricula with practical study. Therefore, credit for this course will only be granted to students who have declared an undergraduate major in Aerospace Engineering. Students eligible for this credit must either obtain their license or advanced rating while a WMU undergraduate student, or maintain legal currency by completing a documented annual or biennial proficiency check while enrolled with a declared major in Aerospace Engineering.

The cognizant faculty member for pilot training activities is currently Professor Peter A. Gustafson. Inquiries should be directed to him.

Department Curriculum Chair approver: Kapseong Ro

Department Curriculum Chair comment:

Date: 03-OCT-2019

Department approver: Koorosh Naghshineh

Chair comment:

Date: 03-OCT-2019