

Submit on blue paper

**COURSE / CURRICULUM MODIFICATION REQUEST**COLLEGE **Technology**

2223-236

**\*\*COURSE CHANGE**

- ☐ Create new course  
☐ Eliminate course  
☐ Modify existing course (mark all that apply):
- ☐ Title ☐ Description ☐ Prerequisite  
☐ Course content  
☐ Course number (old course number to be deleted)  
☐ Credit Hours ☐ Term offered  
☐ Contact Hours  
☐ Method of instruction (see table on reverse)  
☐ Web-centric  
☐ Web-based (definitions on reverse)

Requested Course change effective date: (Semester/Year)

Implemented by Registrar, effective:

\*\*reviewed by Undergraduate Council if it has broad impact

**PROGRAM CHANGE****Program Name:** **Bachelor of Science in Aviation Flight Operations**

- ☐ Minor change to program requirements/checksheet  
☒ Change program name  
☒ \*Create new program and new program code (check one):  
☒ degree ☒ major ☐ minor  
☐ specialization ☐ certificate  
☐ \*Major change to program requirements/checksheet  
☐ \*Program to be available 100% online  
☒ \*Add, delete, modify program matriculation requirements  
☐ \*Suspend admission to and/or eliminate a program

Requested Program effective date: **Fall 23** (Semester/Year)

Implemented by Registrar, effective:

\*reviewed by Undergraduate Council

CATALOG DESCRIPTION for a new or modified course, OR BRIEF OVERVIEW of program change (limit 675 characters):

This proposal will change the Aviation Flight Technology and Operations course of study from a specialization to a degree. The degree was formerly a Bachelor of Science in Aviation with a specialization of Flight Technology and Operations. The new degree name will be shortened to a Bachelor of Science in Aviation Flight Operations. We are dropping matriculation requirements for the degree but the curriculum will remain unchanged. The AERT 4690 Jet Transition and Familiarization capstone course that was approved in 2020 is included and highlighted on the new check sheet. This is part of the School of Aviation proposal.

(If this is a new course or if the "Method of instruction" box is checked above):

Maximum Class Size Grading method: ☐ A/F ☐ S/U only ☐ A/B/C/NC (No Credit) ☐ S/NC (No Credit)

Method(s) of Instruction\* and contact hours

\*See page two for Methods of Instruction definitions and approved combinations

What other colleges or departments/programs may be affected by this proposal?\*

\*\*Please attach comments from affected units and circulate them with the curriculum modification request.

	Position	Name (print or type)	Signature	Date
1	Proposer Tel: 419- 3720345 Position: <b>Aviation Program Coord.</b>	<b>Carlton J. Braun</b>	<i>Carlton Braun</i> <small>Carlton Braun (Apr 13, 2022 15:32 EDT)</small>	
<b>ADEQUATE LIBRARY MATERIALS ARE AVAILABLE (For NEW COURSE or NEW PROGRAM only):</b>				
2	Dean, University Libraries	<b>Sara Bushong</b>		
<b>APPROVED:</b>				
3	Chair or School/Program Director	<b>Dr. M.D. Sarder</b>	<i>MD Sarder</i>	
4	Chair, College/School Curriculum Committee	<b>Dr. Andreas Luescher</b>	<i>Andreas Luescher</i> <small>Andreas Luescher (May 23, 2022 15:45 EDT)</small>	
5	Dean of College	<b>Dr. Jennie Gallimore</b>	<i>Jennie Gallimore</i>	
6	Secretary, UGC (major changes only)	<b>Sarah Meussling</b>		
<b>ACTIONS OF UNDERGRADUATE COUNCIL ARE REVIEWED BY THE FACULTY SENATE COMMITTEE ON ACADEMIC AFFAIRS (CAA).</b>			<b>Materials sent to CAA on:</b>	
7	Provost/VPAA	<b>Glenn Davis</b>		
<b>REVIEWED AND IMPLEMENTED BY:</b>				
8	Registrar	<b>Michelle Rable</b>		

# Fall 2023 | Bachelor of Science in Aviation Flight Operations (New Degree Name)

## BG PERSPECTIVE (BGP) Requirements:

Course \_\_\_\_\_ Credits \_\_\_\_\_

**Must complete at least 1 course in each of the following:**

English Composition and Oral Communication \_\_\_\_\_

Quantitative Literacy \_\_\_\_\_

**Must complete at least 2 courses in each of the following:**

Humanities and the Arts \_\_\_\_\_

Natural Sciences \_\_\_\_\_

Social and Behavioral Sciences \_\_\_\_\_

**Complete total required BGP credit hours by selecting courses from any of the above categories:**

## UNIVERSITY REQUIREMENTS

Note: Designated courses in the Humanities and the Arts, and the Social and Behavioral Sciences domains may be used to fulfill both a BGP requirement and one of the following university requirements:

Cultural Diversity in the U.S. \_\_\_\_\_

International Perspective \_\_\_\_\_

Composition Requirement:

\_\_\_\_\_ WRIT 1120 Academic Writing \_\_\_\_\_

*Total BGP Credits: Must be at least 36*

\*\* These courses may be used to meet BG Perspective requirements, but hours are counted only once.

Important information on the back

## Courses Required for Major

Cooperative Education 1 Hr

TECH 2890 -Co-op 1

## Professional Core

21 Hrs

\_\_\_\_\_ AERT 2000 Introduction to Aviation 3

\_\_\_\_\_ AERT 2050 Aviation Maintenance Mgmt. 3

\_\_\_\_\_ AERT 3000 Air Transportation 3

\_\_\_\_\_ AERT 3490 Aviation Law 3

\_\_\_\_\_ AERT 3520 Aviation Crew Resource Mgmt 3

\_\_\_\_\_ AERT 3540 Aviation Management 3

\_\_\_\_\_ AERT 4600 Safety Mgmt Systems 3

## Flight Technology & Operations Courses (Change name, hrs) 41 hrs

\_\_\_\_\_ AERT 2200 Private Pilot Ground 4Rem bold

\_\_\_\_\_ AERT 2220 Private Pilot Flight Instruction I 2

\_\_\_\_\_ AERT 2230 Private Pilot Flight Instruction II 2

\_\_\_\_\_ AERT 2240 ATC and NAS 3Rem bold

\_\_\_\_\_ AERT 2800 Instrument Ground School 3

\_\_\_\_\_ AERT 2810 Basic Instrument Flight Instruction 3

\_\_\_\_\_ AERT 2820 Advanced Inst Flight Instruction 3

\_\_\_\_\_ AERT 3200 Commercial Ground School 3

\_\_\_\_\_ AERT 3240 Basic Commercial Flight Instruct 3

\_\_\_\_\_ AERT 3250 Advanced Commercial Flight Inst. 2

\_\_\_\_\_ AERT 3060 Multiengine Ground School 1

\_\_\_\_\_ AERT 4040 Adv Aerodynamics & Aircraft Perf 3

\_\_\_\_\_ AERT 4050 Advanced Aircraft Systems 3

\_\_\_\_\_ AERT 4680 Business Aviation 3

\_\_\_\_\_ AERT 4690 Jet Familiarization and Transition 3Approved

2020

## Other Required Courses

University (Change) 28 Hrs

\_\_\_\_\_ BA 2030 Business Comm or (Remove bold) 3

\_\_\_\_\_ ESHP 1010 Intro to Entrepreneurship (Remove bold)

\_\_\_\_\_ MATH 1220\*\* (Remove bold) 4

\_\_\_\_\_ GEOG 1250 Weather and Climate\*\* OR

\_\_\_\_\_ GEOG 1260 Weather Studies Laboratory\*\* 3

\_\_\_\_\_ GEOG 2130 Meteorology 3

\_\_\_\_\_ PHYS 2010\*\* College Physics 5

\_\_\_\_\_ COMM 1020\*\* Speech Comm 3

\_\_\_\_\_ COMM 2010, 2030, 2070 or 2100\*\*\* 3

\_\_\_\_\_ PSYC 1010\*\* General Psychology 4

## Supplemental Focus

9 Hrs

Consider courses from AERT, AERO, ACCT, BA, FIN, GEOG, COMM, LEGS, MKT, MGMT, MSL, PSYC, TECH, and TLEP.

Electives (by advisement as needed) (Change Hours) 5-6 Hrs

Total Minimum Program Hours

122 Hrs

## Fall 2023 | Bachelor of Science in Aviation Flight Operations (New Degree Name)

~~Matriculation courses are in **BOLD Print**. (Remove)~~

See the Undergraduate Catalog for eligible courses at [www.bgsu.edu/catalog.html](http://www.bgsu.edu/catalog.html) (Remove #)

~~QS courses are offered on-line only. (Remove)~~

~~\*\*These courses may also be used to meet the BG Perspective requirement, but hours may only be used once.~~

~~\*\*\*Communications courses – Choice of COMM 2010 Comm Theory, COMM 2030 Small Group Comm, COMM 2070 Interpersonal Comm, or COMM 2100 Intl Comm.~~

### NOTES:

All Aviation courses must be completed with a C or higher. Supplemental focus courses and technology electives are in addition to those specifically listed on the sheet. When students use courses to fulfill more than one requirement the total minimum program hours of 122 may not be met.

- Students must take 40 hours at the 3000-4000 level.

### College of Technology, Architecture and Applied Engineering General Information for all students in the College

In addition to completing all requirements on the checklist, students are responsible for:

#### ~~Matriculation. (Remove)~~

~~Full admittance to a major in a College of Technology, Architecture and Applied Engineering program will become effective when a student has:~~

- ~~1. Attained an overall BGSU grade point average of at least 2.25 for all courses taken prior to applying for matriculation and a 2.5 in courses in the major.~~
- ~~2. Completed a cooperative education experience — TECH 2890 (Aviation Studies, Architecture, LDT and QS majors are exempt from this requirement).~~
- ~~3. Completed with a grade of “C” or better in all bold courses, as specified on program check sheets.~~
- ~~4. Applied for matriculation. Applications are available from the Undergraduate Student Services Office.~~

~~The steps listed above must be completed before students will be permitted to register for 3000- and 4000-level courses in the College of Technology, Architecture and Applied Engineering.~~

### Co-op

All students in the College are required to complete 2 or 3 co-ops, depending on your major. THIS IS A COURSE. It carries credit and is graded. It is full time (40 hrs/week) for the entire semester or part-time (20 hrs/week) for two consecutive semesters, paid and must be directly related to your major. All students MUST complete the Co-op Orientation available in Canvas.

### Email

Official University email accounts are required for all BGSU students. Official BGSU email addresses are in the form: BGSUusername@bgsu.edu. At the time of admission or initial registration, all students will receive a bgsu.edu email account. Students may anticipate that official University correspondence will be sent to this email account, and they should access BGSU email on a regular and timely basis. All correspondence from Undergraduate Student Services will be sent to your BGSU email.

### Checksheet

The checklist should be used in conjunction with the degree audit and advising to track progress toward degree completion.



## PROGRAM CHANGE REQUEST FORM

This sheet is an overview of the content and format of proposals for a new undergraduate program, or for elimination or modification of an existing program. Most program changes must be reviewed by Undergraduate Council and, in some cases, by the Board of Trustees and/or the Ohio Board of Regents. As a result, a proposal for program changes should generally be prepared in consultation with the Office of the Senior Vice President for Academic Affairs and Provost. Some of the information in the proposal must be summarized on the COURSE/CURRICULUM MODIFICATION REQUEST cover sheet ("blue sheet") that will accompany it through the approval process. *Depending on the nature of the request, it may not be necessary to provide all the information below. Please use your own responses to the checkbox items on the "blue sheet" as a guide for deciding which items below are relevant to your proposal.* Please use the outline headings shown below to prepare your document; omit any that do not apply.

### A. THE MODIFICATION

1. *For all proposals:* Describe briefly the nature of the proposed change.

This proposal will change the Aviation Flight Technology and Operations course of study from a specialization to a degree. The degree was formerly a Bachelor of Science in Aviation with a specialization of Flight Technology and Operations. The new degree name will be shortened to a Bachelor of Science in Aviation Flight Operations. The curriculum will remain unchanged. We are also removing the matriculation requirement from several courses on the check sheet. This proposal, along with the Aviation Management and Operations degree proposal will be the basis for the new School of Aviation here at BGSU. The AERT 4690 Jet Transition and Familiarization capstone course that was approved in 2020 is included and highlighted on the new check sheet.

The curriculum modification process is intended to change program requirements as represented in the Undergraduate Catalog and on checksheets. For this reason, all curriculum modifications for new programs or program revisions must include:

- 1.1 A checksheet that shows and highlights the proposed change(s). (Please make the *changes* on the checksheet *obvious*, preferable with revision markings).
- 1.2 Catalog pages (printed from the current version of the online catalog) showing the proposed changes. (Please use revision markings or some other device to make *changes obvious*). If a new program is being proposed, then new catalog copy should be submitted. Care should be taken to ensure that the proposed changes to the catalog match the proposed changes to the checksheet.
2. List courses to be taken out of program requirements. (If courses are to be eliminated from course inventory, submit a separate "course change" for that action).  
**None**
3. List courses to be added to program requirements. (If new courses are to be added to course inventory, submit a separate "course change" for that action).  
**No new courses added. The Check Sheet adds the previously approved AERT 4690 Jet Transition and Familiarization capstone course that was proposed and approved in 2020.**
4. *For proposals to make major changes to program requirements:* Describe any change to the sequence of courses within a major/minor/area of specialization/certificate.  
**The sequence of courses will remain unchanged from the current FTO specialization. Several courses on the checksheet had a matriculation requirements, AERT 2050, AERT 2200, AERT 2240, BA 2030, ESHP 2040, and Math 1220. We propose removing these**

**matriculation requirements to assist students in moving thru the degree program. We will continue to utilize course prerequisites for proper course progression.**

5. Will this change result in modification of student learning outcomes? ☐ yes ☒ no  
If yes, list all changes to the student learning outcomes related to the curriculum modification and describe the plan for assessing those outcomes.

**N/A**

6. Program changes approved before the January deadline for the Catalog update will be recorded in the Catalog and will be in effect for checksheets in the fall of that year.

**B. RATIONALE [Required for all proposals]:**

1. Reason/Need for the change. For new programs, explain how this fits with the Academic Plan.  
***Since there is a significant difference in the previous specializations (+30 credit hours), we can split these programs from two different specializations into two different degrees. This change will allow for future growth within the BGSU Aviation degrees and allow us to keep up with industry changes in each specific field.***
2. Student implications (describe the basis for each estimate)
  - 2.1 Prospective demand for a new degree/major/minor (level of student interest).  
**With the current trend of growing enrollment projected to continue, demand will remain high.**
  - 2.2 Effect on required hours in degree/major/minor.  
**None**
  - 2.3 Number of students affected and in what way.  
**No current students will be affected.**
  - 2.4 Effect on elective hours of majors/minors.  
**No change**
  - 2.5 If a degree/major/minor is to be eliminated, how will current students in the program be accommodated?  
**N/A**
  - 2.6 If requirements for matriculation from a pre-major program are to be added or modified, how will those changes affect student enrollment and progress toward graduation?  
**The removal of matriculation requirements will allow for a smoother student flow in the degree program. We will utilize individual course prerequisites for proper course progression.**
  - 2.7 Is this a degree program whose normal time to degree is something other than four calendar years for a baccalaureate degree and two calendar years for an associate degree?  
If so, how many hours/years to obtain the degree?  
**There will be no change in the hours, requirements, or time needed to complete the degree.**

**C. IMPLICATIONS FOR EXISTING PROGRAMS [For all proposals]:**

1. How will the proposed change affect the integrity of other programs to which it is related, including the demand for courses or degrees in other programs
  - 1.1 in the department/school?  
**There will be no change nor will it affect the integrity of other related programs.**
  - 1.2 in the college?  
**No changes**
  - 1.3 in other university departments/colleges?

**No changes**

1.4 at other universities?

**No changes**

2. What individuals in other departments/schools/colleges, if any, have been consulted about this proposal? *[attach correspondence where appropriate]*

**This change only affects the Flight Technology and Operations Specialization and was discussed with Aviation faculty at the program meeting. These degree changes were also discussed at the Department of Engineering Technology (DET) meeting and in meetings with the Bowling Green Flight Center (BGFC).**

3. What effect will the proposed change have on accreditation of this program or of associated programs in the college/university?

**Aviation Accreditation Board International (AABI) supports the move of this program to a School of Aviation. Since this degree proposal formalizes the existing specialization into a degree, AABI supports the change. This change is also supported by the BGSU Aviation Industry Advisory Board. Emails from both organizations are attached.**

4. What effect will the proposed change have on the ability of the department/school/college/university to meet goals for recruitment, retention, and diversity?

**No adverse changes expected. With the new degree name, the student will have a more descriptive B.S. degree, better reflecting the course of study.**

#### D. STAFFING IMPLICATIONS/QUALIFICATIONS

1. *For new programs, or if an existing degree/major/minor/area of specialization is to be modified:*

Are faculty and staff with expertise available now? ☒ yes ☐ no

If not, how will they be identified/recruited?

2. *For all proposals:* How will this change affect the allocation of faculty and staff in the department/school/college? **No change in faculty allocation needed.**

3. *For all proposals:* How will this change affect faculty work load? **There should be no change in allocated faculty work load.**

#### E. AVAILABILITY OF RESOURCES

1. *For all proposals:* Indicate any unique space requirements for new or modified curricula, and space likely to be released by the elimination or modification of existing curricula, and space likely to be released by the elimination or modification of existing curricula.

**No changes to existing space requirements.**

2. *For all proposals:* Indicate any new one-time or continuing costs for materials, equipment, services, or personnel directly associated with a new or modified curriculum. How will these costs be covered? Indicate any cost savings to be generated if an existing degree/major/minor/area of specialization is to be eliminated.

**No additional costs are expected with the degree name change.**

3. *For all programs, or if an existing degree/major/minor/area of specialization is to be modified:*

Indicate any unique library, computer, or instructional media resources that will be needed for new or modified curricula. Are they already available?

**No additional instructional or library media required.**

F. TIMETABLE FOR IMPLEMENTATION *[For all proposals]*

1. Provide a detailed timetable for events that will occur as the proposed program change is accomplished (e.g. addition or elimination of courses, hiring of faculty).

**Fall 2023**

G. OTHER INFORMATION

1. Provide other information that may be helpful in the review process, as appropriate.  
**Since this is a new Bachelor of Science Degree proposal, there is no old check sheet. The existing Bachelor of Science in Aviation with a Specialization in Aviation Flight Technology and Operations check sheet is included for reference.**



**AVIATION ADVISORY BOARD**

December 14, 2021

On the behalf of the BGSU Aviation Advisory Board, we fully support the establishment of the School of Aviation under the College of Technology, Architecture, and Applied Engineering. We as a board believe that this expansion of the program will be in the best interest of the students, faculty, and Flight Center staff.

By embracing the adjustment under the College of Technology, Architecture, and Applied Engineering, we know that the college will be better equipped for the following reasons:

- Ability for advancement in curriculum development with certified Subject Matter Experts
- Improvement in the quality of education for the students
- Ability to pivot with industry advances and current events
- Putting the College in the proactive stance to be set up for success with the explosive growth the industry is projected to expect in the near future

Without a doubt, the BGSU Aviation Advisory Board believes that this change will be pivotal in the advancement of the College of Technology, Architecture, and Applied Engineering and Bowling Green State University.

The BGSU Advisory Board will continue to advise, support and partner with the leaders in the school to ensure success of the program through this change. Without a doubt, we believe this change will be pivotal in the advancement of the College of Technology, Architecture, and Applied Engineering and Bowling Green State University.

Below are the signatures of the BGSU Aviation Advisory Board Executives to signify the support for the School of Aviation on behalf of the group.

*Mason Tunney*

(President)

*Kaily Crous*

(Vice-President)

*Kevin Toth*

(Secretary)

**From:** Guy Smith <[guy@aabi.aero](mailto:guy@aabi.aero)>

**Sent:** Wednesday, March 16, 2022 4:46 PM

**To:** Michael David Ferguson <[fergmic@bgsu.edu](mailto:fergmic@bgsu.edu)>

**Cc:** [darrin.greubel@expressjet.com](mailto:darrin.greubel@expressjet.com); Ceci Shirley <[ceci@aabi.aero](mailto:ceci@aabi.aero)>; Vic Montanez <[Victoria@aabi.aero](mailto:Victoria@aabi.aero)>

**Subject:** [EXTERNAL] AABI Support for the School of Aviation at BGSU

Dear Dr. Ferguson,

On behalf of the Aviation Accreditation Board International (AABI) Board of Trustees, I support the creation of a School of Aviation in the BGSU College of Technology, Architecture in Applied Engineering. We understand that a BGSU school must have more than one degree program. When AABI accredited the BGSU aviation programs in February, 2021; the aviation program was accredited as two separate programs under the AABI criteria. See <http://www.aabi.aero/accreditation/accredited-programs/>

- *B.S. Aviation – Aviation Management & Operations* (Accredited under AABI Program Criteria 5.1 – Program Criteria for Aviation Management)
- *B.S. Aviation – Flight Technology & Operations* (Accredited under AABI Program Criteria 5.5 – Program Criteria for Flight Education)

If BGSU decided to separate the BS in Aviation into two separate degree programs in the School of Aviation, it would not substantially affect the AABI accreditation of your programs.

With support, Guy

Dr. Guy M. Smith

President, Aviation Accreditation Board International (AABI)

115 S. 8<sup>th</sup> Street, Suite 102

Opelika, AL 36801

[guy@aabi.aero](mailto:guy@aabi.aero)

334-748-9359 (Opelika)

386-236-8494 (Ormond Beach)

<http://www.aabi.aero/>

Lead us to a place;

Guide us with your grace;

To a place where we'll be safe.

"A Prayer" from the 1998 film "Quest for Camelot" – Celine Dion and Andrea Bocelli.

**BG PERSPECTIVE (BGP) REQUIREMENTS:**

Course \_\_\_\_\_ Credits \_\_\_\_\_

**Must complete at least 1 course in each of the following:**English Composition and Oral Communication  
\_\_\_\_\_  
\_\_\_\_\_Quantitative Literacy  
\_\_\_\_\_  
\_\_\_\_\_**Must complete at least 2 courses in each of the following:**Humanities and the Arts  
\_\_\_\_\_  
\_\_\_\_\_Natural Sciences - at least one Lab Science required  
\_\_\_\_\_  
\_\_\_\_\_Social and Behavioral Sciences  
\_\_\_\_\_  
\_\_\_\_\_**Complete total required BGP credit hours by selecting courses from any of the above categories:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**UNIVERSITY REQUIREMENTS**

Note: Designated courses in the Humanities and the Arts, and the Social and Behavioral Sciences domains may be used to fulfill both a BGP requirement and one of the following university requirements:

Cultural Diversity in the U.S. \_\_\_\_\_

International Perspective \_\_\_\_\_

Composition Requirement:

\_\_\_\_ WRIT 1120 Research Writing \_\_\_\_\_

*Total BGP Credits: Must be at least 36***Courses Required for Major****Cooperative Education**

____ TECH 2890	4	<b>4-8 Hrs</b>
____ TECH 3890 (optional)***	4	

**Professional Core**

____ AERT 2000 Introduction to Aviation	3	<b>21 Hrs</b>
____ AERT 2050 Aviation Maintenance Mgmt.	3	
____ AERT 3000 Air Transportation	3	
____ AERT 3490 Aviation Law	3	
____ AERT 3520 Crew Resource Management	3	
____ AERT 3540 Aviation Management	3	
____ AERT 4600 Safety Mgmt Systems	3	

**Flight Technology and Operations Specialization**

____ <b>AERT 2200 Private Pilot Ground</b>	<b>4</b>	<b>46 Hrs</b>
____ AERT 2220 Private Pilot Flight Instruction I	2	
____ AERT 2230 Private Pilot Flight Instruction II	2	
____ <b>AERT 2240 ATC and NAS</b>	<b>3</b>	
____ AERT 2800 Instrument Ground School	3	
____ AERT 2810 Basic Instrument Flight Instruction	3	
____ AERT 2820 Advanced Instrument Flight Instruction	3	
____ AERT 3200 Commercial Ground School	3	
____ AERT 3240 Basic Commercial Flight Instruction	3	
____ AERT 3250 Advanced Commercial Flight Inst.	2	
____ AERT 3060 Multiengine Ground School	1	
____ AERT 4040 Adv Aerodynamics & Aircraft Performance	3	
____ AERT 4050 Advanced Aircraft Systems	3	
____ GEOG 2130 Meteorology	3	
____ PHYS 2010 College Physics**	5	
____ AERT 4680 Business Aviation	3	

**Other Required Courses**

____ <b>BA 2030 Business Comm or</b>	<b>3</b>	<b>22 Hrs</b>
____ <b>ESHP 2040 Intro to Entrepreneurship</b>		
____ <b>MATH 1220**</b>	<b>3</b>	
____ COMM 1020** Speech Comm	3	
____ COMM 2010, COMM 2030, 2070, or 2100****	3	
____ IS 2000 Mgmt Info Sys or CS 1000	3	
____ SOC 1010** Principles of Sociology	3	
____ PSYC 1010** General Psychology	4	

**Upon Advisement - Supplemental Focus**

____ AERT 2000-4990	1-3	<b>6 Hrs</b>
____ AERO 3120, 4110, 4120	3-6	
____ ACCT 2000-3990 or ACT 2000-3990	3-6	
____ BA 3000-3990	1-6	
____ FIN 2000-3990	3-6	
____ GEOG 1250** _____, 3030 _____	3-6	
____ COMM 2000-4990	3-6	
____ LEGS 3000-4990	3-6	
____ MKT 3000-4990	3-6	
____ MGMT 3000-4990	3-6	
____ MSL 3020, 4010, 4020	3	
____ PSYC 3110, _____, 3500, _____	3-6	
____ THEM 2000-4990	3-6	

**Technical Electives (by advisement)**

____ ELECTIVE @	3	<b>3-6 Hrs</b>
____ ELECTIVE @	3	

**Total Minimum Program Hours****122 Hrs**

For TECH Electives, chose at least two courses 3000 level and above:

@ AERT 2000-4990; ARCH 2360, 2710, 3360, 3370; CONS 3000-4990; ECT 1910-4990; ENGT 2000-4990; QS 3000-4990; TECH 3020, 4000, 4300, 4310, 4330; TECH 4800, 4890; TE 2520; TECH 3890

Matriculation courses are in **BOLD** Print.

#See the Undergraduate Catalog for eligible courses at [www.bgsu.edu/catalog.html](http://www.bgsu.edu/catalog.html)

## QS courses are offered on-line only.

\*\* These courses may be also used to meet the BG Perspective courses requirement, but hours are only used once.

\*\*\* A second co-op, TECH 3890, can be taken to fulfill a Technical Elective requirement.

\*\*\*\* Communication courses - Choice of COMM 2010 Communication Theory, COMM 2030 Small Group Communication, COMM 2070 Interpersonal Communication, or COMM 2100 International Communication

#### **NOTES:**

- All Aviation courses must be completed with a C or higher.
- Supplemental focus courses and technology electives are in addition to those specifically listed on the sheet.
- When students use courses to fulfill more than one requirement the total minimum program hours of 122 may not be met.

### **College of Technology, Architecture and Applied Engineering**

#### **General Information for all students in the College**

In addition to completing all requirements on the checksheet, students are responsible for:

#### **Matriculation**

Full admittance to a major in a College of Technology, Architecture and Applied Engineering program will become effective when a student has:

1. Attained an overall BGSU grade point average of at least 2.25 for all courses taken prior to applying for matriculation and a 2.5 in courses in the major;
2. Completed a cooperative education experience—TECH 2890 (Aviation Studies, Architecture, LDT and QS majors are exempt from this requirement);
3. Completed with a grade of “C” or better in all bold courses , as specified on program checksheets;
4. Applied for matriculation. Applications are available from the Undergraduate Student Services Office.

The steps listed above must be completed before students will be permitted to register for 3000- and 4000-level courses in the College of Technology, Architecture and Applied Engineering.

#### **Co-op**

All students in the College are required to complete 1 or 2 co-ops, depending on your major. **THIS IS A COURSE.** It carries credit and is graded. It is full time (40 hrs/week) for the entire semester or part-time (20 hrs/week) for two consecutive semesters, paid and must be directly related to your major. All students **MUST** complete the Co-op Orientation available in Canvas.

#### **Email**

Official University email accounts are required for all BGSU students. Official BGSU email addresses are in the form: BGSUusername@bgsu.edu. At the time of admission or initial registration, all students will receive a bgsu.edu email account. Students may anticipate that official University correspondence will be sent to this email account and they should access BGSU email on a regular and timely basis. All correspondence from Undergraduate Student Services will be sent to your BGSU email.

#### **Checksheet**

The checksheet should be used in conjunction with the degree audit and advising to track progress toward degree completion.

## FTO Program Assessment Plan

### AABI General Learning Outcomes

<b>AABI General Learning Outcomes (Criteria 3.3.1) for FTO:</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>
<b>(a) Ability to apply mathematics, science, and applied sciences to aviation-related disciplines.</b>			AERT 2200			AERT 2200
<b>(b) Ability to analyze and interpret data.</b>		AERT 4560			AERT 2200 AERT 4690	
<b>(c) Ability to work effectively on multi-disciplinary &amp; diverse teams.</b>			AERT 4680			AERT 4680
<b>(d) Ability to make professional and ethical decision-making.</b>		AERT 2050			AERT 4600	
<b>(e) Ability to communicate effectively, using both written and oral comm. skills.</b>			AERT 4680			AERT 4680
<b>(f) Ability to engage in and recognize the need for life-long learning.</b>	TECH 2890			TECH 2890		
<b>(g) Ability to assess contemporary issues.</b>	AERT 3000			AERT 3000		
<b>(h) Ability to use techniques, skills, and modern technology necessary for professional practice.</b>			AERT 3250			AERT 3250
<b>(i) Ability to assess the national and international aviation environment.</b>	AERT 2000			AERT 2000		
<b>(j) Ability to apply to apply pertinent knowledge in identifying and solving problems.</b>		AERT 3520			AERT 3520	
<b>(k) Ability to apply knowledge of business sustainability to aviation issues.</b>			AERT 4680			AERT 4680



[illegible]

## AABI Core Outcomes

<b>AABI CORE Learning Outcomes (Criteria 3.3.2) for <u>FTO</u> degree:</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>
<b>(1) (Professionalism)</b> Ability to describe the professional attributes, requirements or certifications, and planning applicable to aviation careers.	TECH 2890			TECH 2890 AERT 4690		
<b>(2) (Aircraft Design)</b> Ability to describe the principles of aircraft design, performance and operating characteristics; and the regulations related to the maintenance of aircraft and associated systems.		AERT 2050			AERT 4050	
<b>(3) (Safety / Human Factors)</b> Ability to evaluate aviation safety and the impact of human factors on safety.		AERT 3520			AERT 3520	
<b>(4) (National / Int'l Law)</b> Ability to discuss the impact on aviation operations of int'l aviation law, including applicable ICAO or other int'l standards and practices; and applicable national aviation law, regulations and labor issues.		AERT 3490			AERT 3490	
<b>(5) (Airports / Airspace)</b> Ability to explain the integration of airports, airspace, and air traffic control in managing the National Airspace System.			AERT 2240			AERT 2240
<b>(6) (Weather / Environment)</b> Ability to discuss the impact of meteorology and environmental issues on aviation operations.			AERT 3200			AERT 3200





## Program Education Goals - FTO Mapping

FTO Program Education Goals (PEG)	AABI General & Core Outcomes
<b>PEG 1: Create competent, skillful professional pilots and flight department leaders who can solve flight operations problems within the aviation industry.</b>	AABI General – A, B, E, H, J AABI Core – 1, 2, 3, 6
<b>PEG 2: Develop crew resource management, operational risk management, and safety professionalism skills in students for their careers in the aviation industry.</b>	AABI General – C, D, G, J AABI Core – 3, 5
<b>PEG 3: Impart professional, business, and ethical responsibility in the global aviation environment.</b>	AABI General – E, F, I, K AABI Core – 4