EBF Course Schedules and Prerequisites

- Use the course offerings sheet to check prerequisites, schedules, and controls for courses for the major.
- Information in LionPATH about which semester a class is usually offered is often inaccurate. Use the course offerings sheet instead.
- EBF 200 and EBF 301 are prerequisites for most 400-level EBF courses. You want to take them as soon as possible.
- Stat 401 is a prerequisite to most of the 400-level EBF classes. Make sure to finish Math 140, then Math 141, then Stat 401 as soon as possible.
- PNG 397 is a data analytics course newly offered by EME. It can be used to substitute Stat 401.
- EBF 401 will be offered in spring semesters only from now on.
- EBF 473 will be offered in fall semesters only from now on.
Prerequisites Enforced at Enrollment
Starting from Spring 2021

• Enforcement of prerequisites at enrollment has been enforced in LionPath. Penn State policy on this is here: https://undergrad.psu.edu/aappm/C-5-enforcement-of-recommended-preparation-and-prerequisite-concurrent-corequisite-courses.html.

• If you want to enroll in a course but don’t have the prerequisites, you need to talk to the instructor.

• If the instructor allows you to enroll, you need to fill out a Prerequisite Override Form and get signed by the instructor.
Changes in Prerequisites of EBF courses  
(effective in Spring 2021)

**EBF 304**
- **New Prerequisites:** EBF 200 and EME 460 and (STAT 401 or EBF 472 or ECON 306)
- **Old Prerequisites:** EBF 200

**EBF 473**
- **New Prerequisites:** EBF 200 and (MATH 111 or MATH 141) and (EBF 472 or STAT 200 or STAT 401 or ECON 106 or SCM 200)
- **Old Prerequisites:** MATH 140; (ECON 102 and MATH 230) or (EBF 200 and EBF 301); (EBF 472 or STAT 200 or STAT 301 or STAT 401)

**EBF 483**
- **New Prerequisites:** EBF 200 and MATH 140 and EBF 301 and (EBF 472 or STAT 200 or STAT 401 or ECON 106 or SCM 200)
- **Old Prerequisites:** MATH 140; and (ECON 102 and MATH 230) or (EBF 200 and EBF 301); and (EBF 472 or STAT 200 or STAT 301 or STAT 401)

**EBF 484**
- **New Prerequisites:** (MATH 110 or MATH 140) and EBF 200 and EBF 301 and (ECON 302 or MATH 250 or MATH 251)
- **Old Prerequisites:** (ECON 102 and MATH 230) or (EBF 200 and EBF 301); and (MATH 110 or MATH 140); and (EBF 472 OR STAT 200 OR STAT 301 OR STAT 401)
Changes in Prerequisites of EBF courses
(minor ones)

EBF 200

- **New Prerequisites:** ECON 102 and (MATH 22 or MATH 26 or MATH 40 or MATH 41 or MATH 140 or placement beyond MATH 22)
- **Old Prerequisites:** ECON 102 and MATH 022 or equivalent

EBF 401

- **New Prerequisites:** EBF 200 and EBF 301 and EME 460 and (EBF 472 or STAT 200 or STAT 401 or ECON 106 or SCM 200)
- **Old Prerequisites:** EBF 200 and EBF 301 and EME 460; EBF 472 or STAT 200 or STAT 301 or STAT 401 (Junior or Senior standing)

EBF 402

- **New Prerequisites:** BLAW 243 or BA 242 or BA 243
- **Old Prerequisites:** BLAW243
EBF 401 Offered in **Spring** ONLY From Now On

- EBF 401 will be offered in Spring semesters only from now on.

- The EBF program will allow FIN 301 or 305 offered by Smeal to substitute for EBF 401, but EBF students should realize that they can enter these Smeal classes only during the summer, and they will need to have all of the prerequisites (especially a statistics class).

- World Campus also offers FIN 301 and allows UP students to enroll during the first week of term (normal drop/add period) if students meet the course prerequisites and if there are available slots (but the class is often full at that point).
EBF 473 Offered in Fall ONLY From Now On

• In-residence EBF 473 will be offered in fall semesters only from now on.

• EBF 473 will also be offered online in summer, but we may cancel it if the enrollment is low.

• Make sure that you will meet the prerequisites for EBF 473, including statistics, before you plan to take it.
EBF 304W Offered in Fall 2021 and Two EBF 497 Sections Offered in Spring 2022

Fall 2021: EBF 304W

Spring 2022: Two EBF 497 courses

• They can be used in place of EBF 304 and for your "Writing Across the Curriculum" requirement.

• EBF 497 section 1: Energy Crisis Leadership, with Dr. Kleit.
PNG 397 Data Analytics for Energy System

• A new course, offered in both Fall 2021 and Spring 2022.

• Prerequisite: Math 22 or higher.

• It can be used to meet the Stat requirement by EBF

• It can be used to meet the Stat 401 prereq of advanced EBF courses
What Should Students Take?

Take ECON 302, EBF 200, EBF 301, EME 460 and STAT 401 as soon as possible

Next Steps? Time to take BLAW 243, CMPSC 101, ECON 104, ACCTG 211

Getting Close to Graduation? Take EBF 304, EBF 401, EBF 473, EBF 483/484, IB 303, RM 302, 400-level elective
Introductory Electives (100-Level Electives)

- The official list from the Bulletin is below.
- Any GN course offered by EMS can be used to fill this requirement (need a course substitution form for a class not listed in the Bulletin)
- CHEM 110, PHYS 211, PHYS 250 are also in the Bulletin.
- CHEM 112, PHYS 212, and PHYS 251 can also be used (need a course substitution form).

**GENERAL OPTION:** (24–36 credits)

**ADDITIONAL COURSES** (9–10 credits)
Environmental Courses

• Also referred to as “400-level electives” or “advanced electives.”

• A list is on the degree audit.

• More options are listed in the Insider’s Guide – a petition will be needed to have courses not listed on the audit count there, but advisors will approve petitions for courses listed in the Insider’s Guide.

• Note that many have prerequisites.

• Generally speaking, courses related to EBF (technical courses in energy and environment, math/statistical/econometric courses, economics and finance courses on firms and industry, data analytics and programming, etc.) are allowed for this 400-level elective.
Courses at Smeal

• ACCTG 211:

Students should take in Spring. For sections in Fall, the remaining seats are not open to EBF until the week before classes start.

• RM 302:

Students should take in Fall, because several sections are offered in Fall, but only one is offered in Spring by Smeal
Want to Know About Summer Classes?

• EBF publishes a list of summer classes every year in January or February, after the summer schedule is released. Look for it on the EBF web site.

• Currently planned (but not guaranteed) summer options at EME:
  - EBF 200
  - EBF 301
  - EME 460
  - EBF 483
  - EBF 473

Note: EBF summer courses and EME 460 could be cancelled if the enrollment is low.

• Other summer courses: IB 303, FIN 301 (substitute for EBF 401), FIN 305W (substitute for EBF 401 or EBF 304W), Natural Science Courses (100 Level GN Electives, many options), Environmental Courses (400 Level Electives, several options), Math, Statistics, Accounting
General Education Option

• 3-6-9 substitution

3 or 6 credits of GA; 3 or 6 credits of GH; 9 credits of GS (ECON 102, 104, 302)

*If you do the 3-6-9 option (using ECON 102, 104 and 302), you will need an additional 3 credits of elective to reach the 120-credit graduation requirement.

• Move 3 substitution (needed if you have the integrative studies requirement)

Substitute a course in one of the Knowledge Domains areas of Arts, Humanities, Social and Behavioral Sciences, Natural Sciences, or Health and Wellness for a course in one of the other areas.

*Students must still have a single domain in each knowledge domain and complete the integrative studies requirement, so careful planning is needed.

For either substitution, you’ll need to meet with an advisor in the Ryan Family Student Center. For the time being, instructions on setting up such a meeting can be found here: https://www.ems.psu.edu/undergraduate/academic-advising.
Want to Know About Minor Choices?

• Minors that may be used to satisfy the EBF General Option minor requirement:

- Any minor offered by EMS, except EBF and Environmental Inquiry
- Any foreign language
- Civic and Community Engagement, Entrepreneurship and Innovation, Environmental Resource Management, Math, Statistics, Supply Chain and Information Sciences and Technology (SCIST), Sustainability Leadership, Watersheds and Water Resources
- Most hard science or engineering minors will be approved, but check with the EBF program chair in advance to confirm that a specific hard science or engineering minor you are considering will be accepted
- You can also take any concurrent major instead of a minor, as long as EBF students are accepted into the concurrent major.
Tips for Minors

• Start planning for your minor early. The Bulletin lists course requirements for each minor and an advising contact.
• Many minors include courses that are prerequisites to each other or may only be offered once a year.
• IST minor is not recommended: it is difficult to finish as it is difficult for students to be enrolled in its courses.

• The program chair will not waive the minor requirement because of difficulty accessing or scheduling classes. PLAN EARLY and discuss course offerings and prerequisites with the minor’s advisors.
Entrepreneurship and Innovation Minor (ENTI)

• Many EBF students are attracted to the ENTI minor, but the New Ventures cluster is becoming over-subscribed.

• Seats in New Ventures cluster courses may be limited in the future.

• EBF students interested in the ENTI minor should seriously consider an alternative cluster. Good alternatives are:
  • Entrepreneurship as Advocacy
  • Food and Bio Innovation
  • Social Entrepreneurship
  • Technology Based Entrepreneurship

Talk to the advisors in the cluster if you consider one of the alternative clusters!
Many EBF students are attracted to the SCIST minor, but we have started to notice controls on some required courses for the minor.

IST 210 and IST 220 currently have controls that prevent EBF students from enrolling during the scheduling period even if you are in the SCIST minor. The controls indicate that students in the SCIST minor are permitted to enroll on April 29. (See picture at right)

Talk to advisors of the SC-IST minor if you consider this minor!
Want to Have a Concurrent Major?

• You can use any concurrent major, instead of a minor, to meet EBF General Option requirements.

• A concurrent major cannot be enrollment controlled, since EBF is enrollment controlled and students at Penn State are not permitted to have two enrollment-controlled majors.

• To enroll in a concurrent major you:

  1. Meet with your EBF program chair and ask for approval to take a concurrent major.
  2. Meet with the advisor(s) for the second (concurrent) major to discuss your plans and ask for their approval.
  3. Add the major using Update Academics on LionPATH.

Note that admission into a concurrent major is not automatic. Admission must be approved by both departments/programs.
Challenges in Studying Abroad

• Penn State Cancelled Study Abroad for Spring 2021, but is accepting applications for next year.

• Still uncertainty in studying abroad during the Covid-19 pandemic

• Talk to the Global Program and your EBF program chair if you consider a study abroad instead of a minor or concurrent major.
Scheduling Tips

• Schedule on your assigned scheduling date.
• Look for alternative sections if the one you put in your shopping cart is full.
• Put yourself on the waitlist right away for classes that are full.
• Use the swap function in LionPATH.
• If you don’t meet controls for a class, check whether there are different controls on other sections.
Helpful Documents, at: www.eme.psu.edu/ebf

• The EBF Insider’s Guides
• Summer courses for EBF students
• EBF check sheets (and how to use them)
• Study Abroad Guide for EBF students
• Check the bulletin board outside 115 Hosler for more information!