



Suggested Four-Year Course Pathway Worksheet
B. S. (BACHELOR OF SCIENCE) IN BIOLOGY (starting in MATH 0100/1100)
 2024-2025 Bulletin

FALL SEMESTER	SPRING SEMESTER
FRESHMAN* (0 – 29 earned hours)	
<input type="checkbox"/> ETHS 1101 (PG3) – 3 hr. <input type="checkbox"/> ENGL 1101 (PG1) – 3 hr. <input type="checkbox"/> MATH 0100 or MATH1100 (according to placement) – 3-5 hr. (If complete MATH 1100, continue to MATH 1101 in fall) For full schedule select 1-2 from the following: <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. Min 15 HRS _____	<input type="checkbox"/> ETHS 1102 (PG3) – 1 hr. <input type="checkbox"/> ENGL 1102 (PG1) – 3 hr. <input type="checkbox"/> MATH 1101 (pre-req for CHEM 1101) or MATH 1221 ^{††} (if MATH 1101 completed in fall)– 3 hr. For full schedule select 3 from the following: <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. Min 15 HRS _____
SOPHOMORE (30 – 59 earned hours)	
<input type="checkbox"/> BIOL 1107 – 3 hr. <input type="checkbox"/> BIOL 1107L – 1 hr. <input type="checkbox"/> CHEM 1101 – 4 hr. <input type="checkbox"/> BIOL 2100 – 3 hr. <input type="checkbox"/> BIOL 2270 – 1 hr. For full schedule select 1 from the following: <input type="checkbox"/> MATH 1221 [†] or MATH 1114 ^{††} – 3-4 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> Elective/minor course** _____ hr <input type="checkbox"/> Elective/minor course _____ hr. Min 15 HRS _____	<input type="checkbox"/> BIOL 1108 – 3 hr. <input type="checkbox"/> BIOL 1108L – 1 hr. <input type="checkbox"/> CHEM 1102 – 4 hr. <input type="checkbox"/> BIOL 2200 – 3 hr. For full schedule select from 1 from the following: <input type="checkbox"/> MATH 1221 [†] or MATH 1114 ^{††} – 3-4 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> Elective/minor course. _____ hr. <input type="checkbox"/> Elective/minor course _____ hr. Min 15 HRS _____
JUNIOR (60 – 89 earned hours)	
<input type="checkbox"/> CHEM 3201 – 4 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. For full schedule select 2-3 from the following: <input type="checkbox"/> PHYS 1101 (required; take as junior or senior) – 4 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> Elective/minor course. _____ hr. Min 15 HRS _____	<input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> CHEM 3202 – 4 hr. <input type="checkbox"/> BIOL 4470– 1 hr (take as jr or sr; offered every other year). For full schedule select 2-3 from the following: <input type="checkbox"/> PHYS 1102 (required; take as junior or senior) – 4 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> Elective/minor course. _____ hr. Min 15 HRS _____

Upper-level biology (BIOL 3XXX) requirement BS Biology: 7 courses in total; 1 organismal course, 1 cell/molecular course, 3 courses with lab, 2 courses with or without lab (see current bulletin for course categories and details and degree requirements. Currently, 2 BIOL 3XXX courses are offered per semester.

SENIOR (90+ earned hours)	
<input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr.	<input type="checkbox"/> BIOL 4470– 1 hr (take as jr or sr; offered every other year).
	<input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr.
	<input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr.
<i>For full schedule select 3-4 from the following:</i>	
<input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr.	<input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr.
<input type="checkbox"/> CHEM 4421 – 4 hr.	<input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr.
<input type="checkbox"/> PHYS 1101 (required; take as junior or senior) – 4 hr.	<input type="checkbox"/> PHYS 1102 (required; take as junior or senior) – 4 hr.
<input type="checkbox"/> ETHOS course of choice _____ – 3 hr.	<input type="checkbox"/> ETHOS course of choice _____ – 3 hr.
<input type="checkbox"/> Elective/minor course. _____ hr.	<input type="checkbox"/> Elective/minor course. _____ hr.
Min 15 HRS _____	Min 15 HRS _____

General Education Credit Hours: 43..... Major Credit Hours: 56-60 Elective hours: 17-21.....Total credit hours 120**:

*The first semester is a transitional time for first year students, so we recommend 12-14 hours if possible. However, you must take on average 15 hours per semester to stay on track to graduate in 4 years. 18 hours is the maximum number hours one can take in a semester without an overload.

**Choose a minor or second major to reach 120 hours required for graduation.

- **For details regarding the specific courses and BS Biology major requirements, refer to the [LaGrange College Bulletin](#) or discuss with your advisor. Upper-level biology (BIOL 3XXX) requirement for BS Biology: 7 courses in total; 1 organismal course, 1 cell/molecular course, 3 courses with lab, 2 courses with or without lab (see current bulletin for course categories and details and degree requirements.**
- The B.S. degree is preparatory for pre-professional programs (medicine, dentistry, veterinary medicine, physical therapy, physician assistant, pharmacy, optometry, etc.) and graduate programs in life sciences fields.
- To be eligible for a degree, students must complete the required number of Collegiate Enrichment (CE) credits reflected in the Bulletin and maintain a minimum of a 2.0 GPA.

NOTES:

- You must take an average of 30 hours per year to reach the 120 credit hours required for graduation in 4 years; you may choose a second major, minor, or enroll in elective courses to reach the 120 hours required.
- Priority courses for each semester are listed for each semester on the table above. The courses listed under the 'For a full schedule' heading for each semester are courses that are required, but that have flexibility for when to enroll in them.
- For a list of Ethos courses and requirements, see the Ethos curriculum in the bulletin; PG# corresponds to the course categories in Ethos.
- For a list of upper-level biology courses as well as requirements for the BS Biology major consult the current bulletin.
- ‡BS Biology majors need to complete math through MATH 1221. If a student tests into MATH 1101, take MATH 1101 and MATH 1221. If student tests into MATH 1221 or higher, take the math he/she tests into.
- ††MATH 1114 is the preferred MATH for Biology majors for PG1 applied math requirement.
- MATH 1101/testing into MATH 1101 is a co-requisite for BIOL 1107/1107L. A C- or better in BIOL 1107/1107L is a pre-requisite for BIOL 1108/1108L. A C- or better in BIOL 1107/1107L and BIOL 1108/1108L are pre-requisites for all BIOL 3XXX and 4XXX courses.
- Math 1101 is a pre-requisite course for CHEM 1101. CHEM 1101/1102 are pre-requisite courses for CHEM3201. CHEM 3201/3202 are pre-requisites for CHEM 4421. CHEM 4421 is highly recommended for many pre-professional programs and graduate programs.
- MATH 1221 is a pre-requisite for PHYS 1101.
- The current LaGrange College bulletin supersedes this worksheet if differences between this document and the bulletin arise.