



Suggested Four-Year Course Pathway Worksheet
B. S. (BACHELOR OF SCIENCE) IN BIOLOGY (starting in MATH 1101 or higher)
 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 1101, 1221, or 2221 [‡] (according to placement) – 3-4 hr. <input type="checkbox"/> BIOL 1107 (PG2) – 3 hr. <input type="checkbox"/> BIOL 1107L (PG2) – 1 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 1221 or MATH 1114 ^{‡‡} (MATH 1114 is the preferred applied math for biology) (PG1) – 3-4 hr. <input type="checkbox"/> BIOL 1108 (PG2) – 3 hr. <input type="checkbox"/> BIOL 1108L (PG2) – 1 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. Min 15 HRS _____
SOPHOMORE (30 – 59 earned hours)	
<input type="checkbox"/> BIOL 2100 – 3 hr. <input type="checkbox"/> BIOL 2270 – 1 hr. <input type="checkbox"/> CHEM 1101 – 4 hr. <i>For full schedule select 2-3 or more from the following:</i> <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> PHYS 1101 (required) – 4 hr. <input type="checkbox"/> Elective/minor course** _____ hr. Min 15 HRS _____	<input type="checkbox"/> BIOL 2200 – 3 hr. <input type="checkbox"/> CHEM 1102 [#] – 4 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <i>For full schedule select from 1-2 or more from the following:</i> <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> PHYS 1102 (required) – 4 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. <i>For full schedule select 2-3 from the following:</i> <input type="checkbox"/> PHYS 1101 (required) – 4 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> Elective/minor course _____ hr. Min 15 HRS _____	<input type="checkbox"/> CHEM 3202 – 4 hr. <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). <i>For full schedule select 2-3 from the following:</i> <input type="checkbox"/> PHYS 1102 (required) – 4 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 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.

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Revised 5/15/2024

SENIOR (90+ earned hours)	
<input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. For full schedule select 2-3 from the following: <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"/> PHYS 1101 (required) – 4 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> Elective/minor course _____ 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. For full schedule select 2-3 from the following: <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> PHYS 1102 (required) – 4 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 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.