



Suggested Four-Year Course Pathway Worksheet  
**BACHELOR OF SCIENCE (B.S.) IN BIOLOGY (starting in MATH 0100/1100)**  
 2022-2023 Bulletin

FALL SEMESTER	SPRING SEMESTER
<b>FRESHMAN* (0 – 29 earned hours)</b>	
<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)  <i>For full schedule select 1-2 from the following:</i> <input type="checkbox"/> ETHOS course of choice _____ – 3 hr. <input type="checkbox"/> ETHOS course of choice _____ – 3 hr.  <b>Min 15 HRS</b> _____	<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; pre-req PHYS 1101) – 3 hr.  <i>For full schedule select 3 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"/> ETHOS course of choice _____ – 3 hr.  <b>Min 15 HRS</b> _____
<b>SOPHOMORE (30 – 59 earned hours)</b>	
<input type="checkbox"/> BIOL 1107 – 3 hr. <input type="checkbox"/> BIOL 1107L – 1 hr. <input type="checkbox"/> CHEM 1101 – 4 hr. <input type="checkbox"/> MATH 1114 (MATH 1114 is the preferred applied math for biology) (PG1) or MATH 1221 (complete by end of sophomore year; pre-req PHYS 1101) – 3-4 hr.  <i>For full schedule select 2-3 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"/> Elective/minor course** _____ hr. <input type="checkbox"/> Elective/minor course _____ hr.  <b>Min 15 HRS</b> _____	<input type="checkbox"/> BIOL 1108 – 3 hr. <input type="checkbox"/> BIOL 1108L – 1 hr. <input type="checkbox"/> CHEM 1102 – 4 hr.  <i>For full schedule select from 3 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"/> Elective/minor course. _____ hr. <input type="checkbox"/> Elective/minor course _____ hr.  <b>Min 15 HRS</b> _____
<b>JUNIOR (60 – 89 earned hours)</b>	
<input type="checkbox"/> BIOL 2100 – 3 hr. <input type="checkbox"/> BIOL 2270 – 1 hr. <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"/> Upper level BIOL 3XXX – _____ 3-4 hr. <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.  <b>Min 15 HRS</b> _____	<input type="checkbox"/> BIOL 2200 – 3 hr. <input type="checkbox"/> BIOL 3373 (recommended but not required) – 3 hr. <input type="checkbox"/> CHEM 3202 – 4 hr.  <i>For full schedule select 2-3 from the following:</i> <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 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"/> Elective/minor course. _____ hr.  <b>Min 15 HRS</b> _____

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).

SENIOR (90+ earned hours)	
<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 2-3 from the following:</i> <input type="checkbox"/> Upper level BIOL 3XXX – _____ 3-4 hr. <input type="checkbox"/> CHEM 4421 – 4 hr. <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.	<input type="checkbox"/> BIOL 4470# – 1 hr. <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 2-3 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"/> 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.
<b>Min 15 HRS</b> _____	<b>Min 15 HRS</b> _____

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 15 hours per semester to stay on track to graduate on time, and 16 hours is the maximum number hours one can take.

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

#Must take course in indicated semester to graduate on time.

- **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 Cultural Enrichment (CE) credits reflected in the Bulletin (10 CE credits are required per year of enrollment at LaGrange College; total 40 CE credits over 4 years) 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.
- Course options are listed in order of priority for the given year. These courses are required, but flexibility exists as to when to take the take courses listed as options.
- 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.
- *\*A student may be placed on probation or suspension, at the discretion of the VPAA, if the student fails to successfully complete ENGL 1101 within the first 30 semester hours of enrollment and/or if the student fails to successfully complete one core mathematics course (MATH 1101 or higher) within the first 45 hours of enrollment at LaGrange College.*