  
Suggested Four-Year Course Pathway Worksheet

B. S. (BACHELOR OF SCIENCE) IN BIOLOGY (*starting in MATH 1101 or higher)*

2024-2025 Bulletin

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| **FALL SEMESTER** | **SPRING SEMESTER** |
| **FRESHMAN\* (0 – 29 earned hours)** | |
| * ETHS 1101 (PG3) – 3 hr. * ENGL 1101 (PG1) – 3 hr. * MATH 1101, 1221, or 2221‡ (according to placement) – 3-4 hr. * BIOL 1107 (PG2) – 3 hr. * BIOL 1107L (PG2) – 1 hr. * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr.   **Min 15 HRS \_\_\_\_\_\_\_\_** | * ETHS 1102 (PG3) – 1 hr. * ENGL 1102 (PG1) – 3 hr. * MATH 1221 or MATH 1114‡‡ (MATH 1114 is the preferred applied math for biology) (PG1) – 3-4 hr. * BIOL 1108 (PG2) – 3 hr. * BIOL 1108L (PG2) – 1 hr. * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr.   **Min 15 HRS \_\_\_\_\_\_\_\_** |
| **SOPHOMORE (30 – 59 earned hours)** | |
| * BIOL 2100 — 3 hr. * BIOL 2270 — 1 hr. * CHEM 1101 – 4 hr.   *For full schedule select 2-3 or more from the following:*   * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr. * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * PHYS 1101 *(required)* – 4 hr. * Elective/minor course\*\* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_hr.   **Min 15 HRS \_\_\_\_\_\_\_\_** | * BIOL 2200 — 3 hr. * CHEM 1102# – 4 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr.   *For full schedule select from 1-2 or more from the following:*   * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr. * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * PHYS 1102 *(required)* – 4 hr. * Elective/minor course \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_hr.   **Min 15 HRS \_\_\_\_\_\_\_\_** |
| **JUNIOR (60 – 89 earned hours)** | |
| * CHEM 3201 – 4 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr.   *For full schedule select 2-3 from the following:*   * PHYS 1101 *(required)* – 4 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr. * Elective/minor course \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_hr.   **Min 15 HRS \_\_\_\_\_\_\_\_** | * CHEM 3202 – 4 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * BIOL 4470– 1 hr (take as jr or sr; offered every other year).   *For full schedule select 2-3 from the following:*   * PHYS 1102 *(required)* – 4 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr. * 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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| **SENIOR (90+ earned hours)** | |
| * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr.   *For full schedule select 2-3 from the following:*   * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * CHEM 4421 – 4 hr. * PHYS 1101 *(required)* – 4 hr. * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr. * Elective/minor course \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_hr.   **Min 15 HRS \_\_\_\_\_\_\_\_** | * BIOL 4470– 1 hr (take as jr or sr; offered every other year). * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr.   *For full schedule select 2-3 from the following:*   * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * Upper level BIOL 3XXX – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3-4 hr. * PHYS 1102 *(required)* – 4 hr. * ETHOS course of choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – 3 hr. * Elective/minor course \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_hr.   **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**](http://www.lagrange.edu/academics/catalogs.html) **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 1107/1107/L 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.