# College of Science, Technology, Engineering, and Mathematics (STEM) - YSU Major: Bachelor of Science (BS) Degree in Biological Sciences 

Department of Biological Sciences Dr. Gary Walker, Chair<br>Ward Beecher Science Hall, Room 4037 (330) 941-3601 (330) 941-1483 fax web.ysu.edu/stem/biology

Requirements for Graduation:
GER model complete
Minimum 37 sh in major (**see back) Minimum 18 sh in minor (**see back) Support courses complete 48 sh of upper division (3700+) Minimum of 120 total sh (see back) Residency requirement (transfer students only) Min. of a 2.00 overall GPA
$\qquad$ After 80-85 sh are complete, request a "graduation evaluation" from the Advising Center in Moser Hall, Room 2325.

Meet with your departmental chair after your graduation evaluation is complete.

## Advisement for the Biology major:

Students will meet with a Biology faculty member for advisement. Please come to the Biology Department, Ward Beecher Science Hall, Room 4037, to consult the listing of faculty interest areas and office hours.

It is recommended that all students meet with their advisor at least one time an academic year. The following current students are required to meet w/an advisor before registration: freshman, athletes, and students on warning or probation.

| General Education Requirements (GER) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Dept | Catalog | Course Description | s.h | Grade |
| Engl | 1550 | Writing I (Prereq. = CRPT or Engl 1539/1540) | 3 |  |
| Engl | 1551 | Writing II (Prereq. = Engl 1550) | 3 |  |
| Cmst | 1545 | Communication Foundations <br> (Prereq. = eligibility to take Engl 1550) | 3 |  |
| Math | $\begin{aligned} & 1570 \\ & \text { or } \\ & 1571 \end{aligned}$ | Applied Calculus (Prereq. = Math 1513 or Level 5 on MPT) or <br> Calculus 1 (Prereq. = Math 1513 or Level 7 on MPT) (Recommeneded) | 4 |  |
|  |  | Foreign Language |  |  |
| Not required for a BS Biological Sciences major if the major was entered after Fall, 2012. |  |  |  |  |
| Natural Sciences (NS): $\mathbf{2}$ courses $\mathbf{+ 1}$ GER elective (This requirement is satisfied by completion of the BIOL major.) |  |  |  |  |
| Biol | $\begin{aligned} & 2601 / \\ & 2601 \mathrm{~L} \end{aligned}$ | General Biology $1 \&$ Lab (Prereq. = Chem 1515/1515L) | $\begin{aligned} & 4 / \\ & 0 \\ & \hline \end{aligned}$ | ------ |
| Biol | $\begin{aligned} & \hline 2602 / \\ & 2602 \mathrm{~L} \end{aligned}$ | General Biology 2 \& Lab <br> (Prereq. = Biol 2601) | $\begin{aligned} & \hline 4 / \\ & 0 \end{aligned}$ | ------ |
| Chem | $\begin{aligned} & \hline 1515 / \\ & 1515 \mathrm{~L} \end{aligned}$ | General Chemistry 1 \& Lab $($ Prereq. $=$ Math 1513) | $\begin{aligned} & \hline 4 / \\ & 0 \\ & \hline \end{aligned}$ | ---- |
| Arts \& Humanities (AH): 2 courses (6 sh) |  |  |  |  |
|  |  |  | 3 |  |
|  |  |  | 3 |  |
|  |  |  |  |  |
| Social Science (SS): 2 courses (6 sh) |  |  |  |  |
|  |  |  | 3 |  |
|  |  |  | 3 |  |
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| Social and Personal Awareness (SPA): 2 courses (6 sh) |  |  |  |  |
|  |  |  | 3 |  |
|  |  |  | 3 |  |
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| GER Elective: 1 course (3 sh) |  |  |  |  |
| This requirement is satisfied by completion of the Biology major. |  |  |  |  |
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Consult the GER website or your advisor for the list of courses
meeting GER requirements: web.ysu.edu/ger/

- Engl. 1550 \& 1551 must be completed by 62 SH.
- Placement exam in English and Math required before registration of classes. (Foreign Language placement test is optional.)
- MATH $1500,1501,1502,1503,1504,1507$, ENGL $1509,1512,1539,1540$, RSS $1510 \mathrm{~A}, \mathrm{~B} \& \mathrm{C}$ and will not count toward graduation total hours.
- A grade of "C" or better is required in the Major and Minor and support courses. Credit/NC Option not permitted in Major/Minor
- Upper division courses have a catalog number of 3700 and above.
- Classes taken and/ or repeated out of sequence will not count toward graduation. Check prerequisites.
- Residency rule states that the last 30 SH must be completed at YSU; 16 SH in major and 21 SH in Upper Division at YSU.
- Request for graduation evaluation form must be filed by 85 SH.


| Chem | $3720 / 3720 \mathrm{~L}$ | Organic Chemistry 2 \& Lab (Chem <br> $3719)$ | $4+0$ |  |
| :--- | :--- | :--- | :--- | :--- |
| Enrollment in the recitation sections are recommended for Phys 1501 \& the above Chemistry <br> courses. Recitation Chemistry courses may not count toward the Chemistry minor. |  |  |  |  |

## Biology (BS) - 37 sh

courses. Recitation Chemistry courses may not count toward the Chemistry minor.

## Required Minor Courses **

Notes:

Minors are listed in the Undergraduate Bulletin and all must be a minimum of $\mathbf{1 8} \mathbf{~ s h}$, with at least 6 sh at the 3000 -level or higher. It is strongly recommended that students complete a minor in Chemistry. A chemistry minor can be met by completion of the required 16 sh of chemistry required for the BS Biology degree plus one additional course from the following: Chem 2604, 3729, 3739, 3764,3785 or $4850 / 4850 \mathrm{~L}$. Chem 3785 Biochemistry $1(3 \mathrm{sh})$ is recommended.

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Electives (needed to meet the minimum of 124 sh total, not to include remedial coursework)

| Dept | Cat. \# | Course Description | sh | gr |
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