

## Advising Guide for Biology Majors

**Advisors: Biology Track (non-Pre-Health):** Appointment sign-up sheets are in the Biology office (WIN 401).

Dr. Glenn Kroh	Ph. 817-257-6168	WIN 434
Dr. John Horner	Ph. 817-257-6181	WIN 435
Dr. Dean Williams	Ph. 817-257-6172	WIN 433

**Pre-Health Biology Majors:** Appointment sign-up at on-line at [http://www.prehealth.tcu.edu/advising\\_calendars.asp](http://www.prehealth.tcu.edu/advising_calendars.asp)

Dr. Giri Akkaraju	WIN 416	Molli Crenshaw	WIN 360C	Dr. Clark Jones	SWR 317
Dr. Matt Chumchal	WIN 405	Dr. Mark Demarest	WIN 431	Dr. Laura Luque	WIN 432
Dr. Mike Chumley	SWR 342	Dr. Matt Hale	WIN 436A	Dr. Shauna McGillivray	WIN 414
Dr. Meredith Curtis	WIN 426	Dr. Marlo Jeffries	WIN 506	Dr. Mike Misamore	WIN 417
				Stephanie Wallace	WIN 360B

Biology is available as a major or minor on the B.A. and B.S. degrees.

The BA is provided for the student who has a strong interest in the biological sciences but who desires a broader-based area of study or who is interested in pursuing multiple majors. The degree is appropriate for students interested in graduate or health-related professional schools but may require additional coursework to fulfill certain prerequisites.

The BS degree offers an expanded study of the biological sciences and includes associated requirements that provide a broader knowledge of the physical sciences. Required courses within the BS degree will meet many prerequisite of graduate and health-related professional schools.

B.A. degree: 26 hours Biology + Minor + Foreign Language = 124 hours total  
B.S. degree: 35 hours Biology + Chemistry (15) + Math (3) + Physics (8) = 124 hours total  
Biology Minor: 21 hours (including a minimum of 3 upper division courses).

### **Requirements for the B.A. degree with a major in Biology.**

A minimum of 26 semester hours in Biology as follows:

- (1) **BIOL 10501,10503 and BIOL 10511,10513** (Intro. Biology I & II lectures, labs)
- (2) **BIOL 30403** (Ecology & the environment)
- (3) **BIOL 30603** (Cell, Molecular & Developmental Biology)
- (4) **Major Field Test** in Biology taken Sr. Year
- (5) **12 additional hours** in biology: including a minimum of two courses with laboratories (excluding BIOL 40033, 40803, 40900). A maximum of 3 hours, of the 12 additional hours, will be allowed for any combination of the following courses: BIOL 40033, 40300, 40320, 40330, 40803, 40900. A maximum of four hours and one laboratory for completion of both BIOL 20204 and 20214 is permitted within the additional 12 hrs.

**Minor:** Any minor is acceptable. **Foreign Language:** competency in a foreign language equivalent to the completion of 4<sup>th</sup> semester (Intermediate II) course. -Students without credit for a high school course in chemistry are encouraged to take two semesters of college chemistry. One year of high school or two semesters of college physics is also advised.

### **Requirements for the B.S. degree with a major in Biology.**

A minimum of 35 semester hours in Biology as follows:

- (1) **BIOL 10501,10503 and BIOL 10511,10513** (Intro. Biology I & II lectures, labs)
- (2) **BIOL 30403** (Ecology & the environment)
- (3) **BIOL 30603** (Cell, Molecular & Developmental Biology)
- (4) **Major Field Test** in Biology taken Sr. Year
- (5) **21 additional hours in biology**, including a minimum of three courses with laboratories. A maximum of 6 hours in independent research courses (BIOL 40033, 40803 or 40900) is permitted within the 21 additional hours. A maximum of 6 hours in teaching of biology courses (BIOL 40320, 40330) is permitted within the additional 21 hours. A maximum of 8 hours for any combination of the following courses will be permitted within the 21 additional hours (BIOL 40033, 40320, 40330, 40803 or 40900). A maximum of 4 hours and one laboratory for completion of both BIOL 20204 and 20214 is permitted within the additional 21 hours.

**(4) Associated Requirements:** CHEM 10113, 10125 or 10123/20123; CHEM 30123, 30121 and 30133; PHYS 10154, 10164; MATH 10043 or 10524; -Additional courses in mathematics, computer science or statistics are encouraged.

**Additional Guidelines-** See TCU Undergraduate Catalog for official listings of all degree requirements

**Pass/No Credit** – two courses (up to 8 hr.) may be taken P/NC. No course applied toward major/minor or associated requirements may be P/NC. **Transfer credits** – 12 hrs maximum after enrolling at TCU. After 54 hr, courses must be taken at 4 yr university.

Academic action form must be filed with CS&E prior to taken summer courses.

**GPA** – a cumulative 2.0 GPA at TCU and a cumulative 2.0 GPA in biology courses is required for graduation.

**Upper Division** – At least 42 hrs of coursework at 30000 level or above must be taken at TCU.

**Residency** – At least 58 hrs must be from TCU and the last 30 hr must be completed at TCU.

