

**5-12 Biology Major- 151
Advising Checklist**

Name _____

Education Core:

- _____ 205 Educational Foundations
- _____ 215 Practicum in Education
- _____ 257 Exceptional Learners
- _____ 387 Human Relations
- _____ 235 Educational Psychology
- _____ 485 Methods of Secondary Science

Iowa General Education:

- _____ Mathematics
- _____ Natural Science
- _____ Social Science
- _____ Humanities

Requirements for the Major:

- _____ 1. BIO 145 Cellular and Molecular Biology
- _____ 2. BIO 140 Introduction to Biology Laboratory
- _____ 3. BIO 155 Organismal and Ecological Biology
- _____ 4. BIO 150 Organismal and Ecological Biology Lab
- _____ 5. BIO 205 General Botany
- _____ 6. BIO 200 General Botany Laboratory
- _____ 7. BIO 235 Genetics and BIO-230 Genetics Laboratory
- _____ 8. BIO 255 Experimental Human Physiology
- _____ 9. BIO 250 Experimental Human Physiology Laboratory
- _____ 10. BIO 202 Topics in Evolution

-or-

BIO-295 Organic Evolution

- _____ 11. **Three** biology electives with their associated laboratories

- _____ 12. CHM-155 Principles of Structural Chemistry
- _____ 13. CHM-165 Principles of Chemical Reactivity

- 14. **One** of the following:

_____ MTH-135 Calculus I

-or-

_____ STA-100 Statistical Reasoning I-Statistical Foundations
(7 weeks)

and any one of the following two 7-week courses:

_____ STA-110 Statistical Reasoning IIA-Inferential Statistics

_____ STA-130 Statistical Reasoning IIB-Experimental Design

Strongly recommended:

- _____ PHY-115 Basic Physics I
- _____ PHY-135 Basic Physics II
- or-
- _____ PHY-215 General Physics I
- _____ PHY-225 General Physics II

With consent of the department, other chemistry or mathematics courses may be counted.

August 31, 2007