BY09EDS09GE09

Office of Registration and Records West Long Branch, NJ 07764 - 1898

| SIOLOGY MAJOR REQUIREM | d Education with Endorsement in Secondary Education in E | Credit | |
|--------------------------------|--|----------------|--|
| MOEGOT MAGON NEGONEM | BY109: Intro to Biodiversity & Evolution | 4.0 | |
| | BY110: Intro to Blodiversity & Evolution BY110: Intro to Cell & Molecular Biology | 4.0 | |
| | BTTTO. Intio to Gell & Molecular Biology | 4.0 | |
| | BY203: Invertebrate Zoology | | |
| | or BY204: Vertebrate Zoology | 3.0 | |
| | Ci Bizon vonosiato zoology | 0.0 | |
| | BY213: Biology of Vascular Plants | | |
| | or BY214: Botany | 3.0 | |
| | | | |
| | BY223: General Microbiology | 4.0 | |
| | BY310: Biochemistry and Laboratory | 4.0 | |
| | BY370: Cell Biology | 3.0 | |
| | BY375L: Lab Molecular & Cell | 2.0 | |
| | BY423: Genetics | 4.0 | |
| | BY425: Principles of Developmental Biology | 4.0 | |
| 0.0 15 (10) 1 51 (1 | E A BYANA BYANA BYANA BYANA BYANA | | |
| 3 Credits of Biology Electives | From Among: BY111, BY112, BY340, BY324, BY406, BY410, | 8.0 | |
| | BY475, BY499 | | |
| | BY495: Senior Seminar & Portfolio | 1 1 | |
| | 51495. Seriioi Seriinai & Portiolio | 1.0 | |
| NICATION MA 100 DEC: """ | I CMENTO: 04 Ora Hita (a) | | |
| DUCATION MAJOR REQUIRE | · · | Credit | |
| | ED250: Foundations of Teaching & Learning | 3.0 | |
| | ED201: Education Psychology EDL206: Child & Adolescent Development | 3.0 | |
| | ED319: Literacy Across the Secondary Curriculum | 3.0 | |
| | ED319N: NCATE Assessment | 0.0 | |
| | ED320: Teaching Students with Diverse Needs | 3.0 | |
| | | | |
| 9 credits as follows: | 3 (| | |
| | ED416S: Seminar in Student Teaching (1 Credit) OR | 9.0 | |
| | ED417: Supervised Student Teaching (8 credits) AND | 9.0 | |
| | ED417S: Seminar in Student Teaching (1 Credit) | | |
| | | | |
| DUCATION METHODS REQU | IIREMENTS: 6 Credits (a) | Credit | |
| | ED369: Teaching Secondary Science, Part I | 3.0 | |
| | or ED375: Secondary Teaching Methods Part I | | |
| | | | |
| | ED370: Teaching Secondary Science, Part II | 3.0 | |
| | or ED376: Secondary Teaching Methods Part II | | |
| | | | |
| | ED-PRAXIS: Education Praxis II | 0.0 | |
| | • PRAXIS - 20235 | | |
| | • PRAXIS - 10435 | [| |
| OLOGY OUTSIDE THE MAJO | | | |
| | MA115: Math Models in Biology | 3.0 | |
| | or MA116: Calculus for Biology | | |
| | or MA125: Calculus with Analytic Geometry I | | |
| | | | |
| | MA151: Statistics with Applications | 3.0 | |
| | CE111: General Chemistry | 3.0 | |
| | CE111L: General Chemistry Lab CE112: General Chemistry | 1.0 3.0 | |
| | CE112L: General Chemistry Lab | 1.0 | |
| | CE241: Organic Chemistry | 3.0 | |
| | CE241L: Organic Chemistry Lab | 2.0 | |
| | CE242: Organic Chemistry | 3.0 | |
| | PH105: Physics for the Life Sciences | 3.0 | |
| | PH105L: Physics for the Life Sciences Lab | 1.0 | |
| | PH106: Physics for the Life Sciences | 3.0 | |
| | DH106L: Dhysics for the Life Sciences Lab | 1 1 | |
| DUCATION OUTSIDE THE MA | PH106L: Physics for the Life Sciences Lab AJOR REQUIREMENTS: 3 Credits | | |
| DUCATION OUTSIDE THE MA | | 1.0 Credit: | |

MONMOUTH UNIVERSITY

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| B.S. in Biology and Education with Endorsement in Secondary Education in Biology | | | | |
|--|--------|---|-------------------|--|
| GENERAL EDUCATION REQU | JIREMI | ENTS: 33 Credits | Credits | |
| English | | EN101: College English I EN102: College English II | 3.0 3.0 | |
| Literature | | EN201: Literature I EN202: Literature II | 3.0 3.0 | |
| History | | HS101: Western Civilization In World Perspective I HS102: Western Civilization In World Perspective II | 3.0 3.0 | |
| Information Technology | | IT102: Information Technology for Scientists | 3.0 | |
| Critical Discourse | | HU201: Critical Discourse (waived) | 0.0 | |
| Science | | Fulfilled in Major Requirements | 0.0 | |
| Mathematics | | Fulfilled in Requirements Outside Major | 0.0 | |
| Social Science (partially fulfilled in Outside the Major Requirements) | | Choose one course from among the following: any 100-level course in AN, GO, PS, SO; BE201, BE202, GS225 | 3.0 | |
| Aesthetics | or | AR101: Art Appreciation MU101: Music Appreciation TH101: Theater Appreciation DA101: Dance Appreciation | 3.0 | |
| Cross Cultural | or | One course chosen from the set of approved courses 3 credits in a foreign language | 3.0 | |
| Perspectives | | PRxxx | 3.0 | |
| Experiential Education | | EX001 | 0.0 | |
| Demonstration of Writing Proficiency | | WP001 | 0.0 | |
| Writing Intensive Requirement | | Two Biology (BY) courses designated as course type WT | 0.0 | |
| | | Two Education (ED, EDL, EDS) courses designated as course type WT | 0.0 0.0 0.0 | |

TOTAL CREDITS FOR B.S. IN BIOLOGY AND EDUCATION WITH ENDORSEMENT IN SECONDARY EDUCATION IN BIOLOGY= 140.0

ADDITIONAL ENDORSEMENTS AVAILABLE:

(Please review Endorsement Charts for Requirements)

- TSD Teacher of Students with Disabilities Secondary (15 credits)
 - ESL English as a Second Language Secondary (12 credits)

NOTES:

- * 58 credits must be completed at the 200 level or higher.
- ** Education majors are required to have an overall GPA of 2.75 for State Certification.

Teacher of Biological Science 7-12 Certification

***By state regulation, all Education Majors seeking content area endorsement must complete 12+ credits at the 300+ level in the content major.

ORR 05/09