

To: Dean Bower

From: Jeanne Okrasinski, Chair EC/ELE/MLE

Date: January 8, 2018

Requested Change: Program/Catalog Change for MLE Science

Rationale for the change: Middle Level Education majors with a science endorsement have struggled to pass the content area test on their initial attempt. After reviewing the revised test framework and consulting with Dr. Lewandowski, the science teacher certification specialist from GEL/GEG, it was determined that the course work provided in the current program does not meet the needs of the content that is required for the new content area test/middle level state standards for public schools. To this end, we are requesting a change to the program including the following deletions and additions. The overall endorsement would become 25 credits, instead of 24, due to the need for the lab components for several courses.

Current Catalog Copy of MLE program with Science endorsement

Middle Grades General Sciences

- ~~BIO 1500 – General Biology I.~~ Credits: 4
- ~~(replaces BIO 1001G in program requirements if completing this endorsement~~
- ~~and~~
- ~~BIO 1550G – General Biology II.~~ Credits: 4

Add BIO 1001G – Biological Principles and Issues. Credits: 3

AND

- ~~CHM 1040G – The World of Chemistry.~~ Credits: 4
- ~~or~~
- ~~CHM 1310G - General Chemistry I.~~ Credits: 3
- ~~and~~
- ~~CHM 1315G - General Chemistry Laboratory I.~~ Credits: 1
- ~~or~~
- ~~CHM 3025G – The Chemistry in Your Life.~~ Credits: 3

AND

- ~~PHY 1051G – Physics of the Modern World.~~ Credits: 3
- ~~or~~
- ~~PHY 1052G – Adventures in Physics.~~ Credits: 3
- ~~and~~
- ~~PHY 1053G – Adventures in Physics Laboratory.~~ Credits: 1
- ~~or~~
- ~~PHY 1151G - Principles of Physics I.~~ Credits: 3
- ~~and~~
- ~~PHY 1152G - Principles of Physics I Laboratory.~~ Credits: 1
- ~~or~~
- ~~PHY 3050G – Excursions in Physics.~~ Credits: 3

AND

- [GEO 1400G - Weather and Climate.](#) Credits: 4
- ~~or~~
- ~~[GEO 3200 - Human Impacts on the Environment.](#) Credits: 3~~
- ~~or~~
- ~~[GEO 1300G - Introduction to Earth Sciences.](#) Credits: 4~~
- ~~or~~
- [PHY 1055G - Principles of Astronomy.](#) Credits: 3
- and
- [PHY 1056G - Principles of Astronomy Laboratory.](#) Credits: 1

AND

- [ELE 3290 - Science in the Elementary and Middle School.](#) Credits: 3

AND

- ~~[AET 2300G - Science and Technology: A Promise or a Threat?](#) Credits: 3~~
- ~~(cross listed with GEO 2300G)~~

Add GEO 2450 Oceanography. Credits: 3

Approved by Department Curriculum Committee and Faculty: November 30, 2017

Approved by College Curriculum Committee:

Approved by COTE:

EFFECTIVE DATE: Fall 2018