

General Science

Bloomington

Interdepartmental Graduate Committee on General Science

(An asterisk [*] denotes membership in the University Graduate School faculty with the endorsement to direct doctoral dissertations.)

Professor Robert Sherwood* (Education), Director; Professor Catherine Olmer* (Physics); Clinical Associate Professor Catherine Reck (Chemistry); Professor Albert Ruesink* (Biology)

Graduate Advisor

Professor Robert Sherwood*, Wright Education Building 3054, (812) 856-8154

Degree Offered

Master of Arts for Teachers

Special Program Requirements

(See also general University Graduate School requirements.)

Admission Requirements

Bachelor's degree with 35 credit hours in science or in science and mathematics. It should be understood that the program of study for this degree is not designed to allow one to continue for the Ph.D. degree.

Course Requirements

Sixty-five (65) credit hours in science and mathematics (counting courses taken as an undergraduate) to include:

1. 35 credit hours in the physical sciences, distributed as follows: astronomy (3 credit hours), chemistry (10 credit hours), geology (6 credit hours), physics (10 credit hours), and electives (6 credit hours);
2. 25 credit hours in the biological sciences, distributed as follows: plant sciences (10 credit hours), microbiology (5 credit hours), and zoology (10 credit hours). Certain general biology courses may count toward this requirement (see below); and
3. 5 credit hours in mathematics or computer science.

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At least 36 credit hours are required beyond the bachelor's degree, including 26 credit hours in the above-named sciences, mathematics, or computer science, the remaining 10 credit hours in science, mathematics, or education.

These minimum requirements are to be met by selecting from the following courses; an advisor in the program should be consulted regarding the acceptability of other courses.

1. Physical Sciences
Astronomy: A100, A105, A221, A222, A451, A452, X311
Chemistry: C101 and C121, C117, C118, C243, R340, C341, C342, C343, C344, C360
Geological Sciences: G111, G112, G221, G222, G334, G404
Physics: P201-P202 (or P221-P222), P300, P301, P302, P310, P331, P340, P460
2. Biological Sciences
General Biology: L111, L112, L113, L211, L311, L312, L313, L318, L319, L323
Microbiology: M250, M255
Plant Sciences: B300, B351, B352, B364, L313, B371, B373
Zoology: Z373, Z374, Z375, Z406, Z466
3. Mathematics and Computer Science
Mathematics: M212
Computer Science: A201

Other 300- and 400-level science courses must be approved by your advisor.

Grades

B (3.0) average or higher; at least B in science courses.

Certification Requirements

All students seeking the M.A.T. degree must be eligible for certification to teach at the middle school or high school level in Indiana or another state.