

Montclair State University
College of Science and Mathematics
Department of Mathematical Sciences

Name: _____
SSN: _____

MINOR PROGRAMS and SECOND TEACHING FIELDS

I. Minor in Mathematics (19 credits)¹

- MATH 122/221/222 Calculus I/II/III (4/4/4)
- MATH 335 Elements of Linear Algebra (4)
- Any 300 or 400 level MATH or STAT elective that is approved for the major. (3)

II. Minor Program in Mathematics with Teacher Certification (34 credits)¹

- For students who wish to be certified in mathematics in addition to certification in their major field.
- MATH 122/221/222 Calculus I/II/III (4/4/4)
 - MATH 335 Elements of Linear Algebra (4)
 - MATH 350 College Geometry (3)
 - Five 300 or 400 level MATH or STAT electives that are approved for the MTED major (15)
- (Students are encouraged to select MATH 470 Teaching of Mathematics as one of their electives.)

III. Minor in Physics (18-19 credits).

Complete PHYS 191/192 University Physics I & II (8 credits) and A or B below:

OPTION A

- PHYS 210 Mechanics (4)
- PHYS 240 Electricity and Magnetism (4)
- Physics elective (3)

OPTION B

- PHYS 240 Electricity and Magnetism (4)
- PHYS 242 Circuit Theory (3)
- PHYS 245 Electronics/Digital Circuits (3)

IV. Second Teaching Field in Physical Science (30 credits)

- For students who wish to be certified in physical science in addition to certification in their major field.
- PHYS 191/192 University Physics I & II (4/4)
 - PHYS ... elective (any upper level physics course) (4)
 - CHEM 120/121 General Chemistry I & II (4/4)
 - CHEM 230/231 Organic Chemistry I & II (3/3)
 - CHEM 232/233 Experimental Organic Chemistry I & II (2/2)

¹ At least 9 semester hours must be taken at MSU.