Teaching in Secondary Mathematics

Associate in Arts in Teaching
Plan 17AB
Engineering, Math and Physical Sciences Division
Room T302, (847) 543-2044

I. College Requirements^

II. General Education Requirements ..................41
   A. Communication Arts ...................................9
      CMM 121 Fundamentals of Speech ..................3
      Θ ENG 121 English Composition I ..................3
      Θ ENG 122 English Composition II or
      Θ ENG 126 Advanced Composition: Scientific and Technical Communications ................3
   B. Social Sciences ...........................................9
      PSY 121 Introduction to Psychology ..............3
      PSY 226 Adolescent Development ..................3
      Social Science Elective* (non-PSY) .................3
   C. Physical and Life Sciences .........................9
      BIO 161 General Biology I .........................4
      PHY 123 Physics for Science and Engineering ..........5
   D. Mathematics ............................................5
      MTH 145 Calculus and Analytic Geometry I ........5
   E. Humanities and Fine Arts ...........................9
      PHI 122 Logic .........................................3
      Fine Arts Elective* ..................................3
      Humanities or Fine Arts Elective* ................3

III. International/Multicultural Requirement (I/M)
   Select one course from the I/M list on page 53. This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts or Elective requirement.
   A B.A. degree at many four-year colleges may require college-level foreign language.

IV. Area of Concentration Requirements ..................21
   Education
      EDU 121 Introduction to Teaching ..................3
      ** EDU 242 Observational/Clinical Experience in Education ..................1
      EDU 222 The Exceptional Child .......................3
   Mathematics
      MTH 146 Calculus and Analytic Geometry II .......4
      MTH 225 Linear Algebra ...............................3
      MTH 246 Calculus and Analytic Geometry III ......4
   Computer Science
      MCS 140 Computer Programming for Engineers and Scientists ..................3

The Associate in Arts in Teaching Secondary Mathematics degree is not automatically accepted in whole for transfer at all participating IAI four-year colleges and universities in Illinois; therefore students must work with the institutions in which they intend to transfer to ensure transferability of specific courses.

Students must pass the ICTS Test of Academic Proficiency (TAP) in order to be awarded the AAT degree.

** Requires 30 hours of observation and field experience in a school setting.

For students wishing to obtain a teaching credential in the State of Illinois, a grade of C or above is compulsory for all coursework required for the teaching credential. This includes courses in the major, all education courses, and required general electives. This is effective for those applying for teacher certification as of 2012, Illinois State Board of Education.

For more information on recommended courses or program specific advising, contact the following faculty or the EMPS Division at (847) 543-2044.

Amy Curry / Tracey Hoy

Courses listed are recommended for students who have not decided upon a specific four-year college or university in which to transfer. Students are strongly encouraged to meet with a counselor or advisor to identify coursework that will meet both CLC and transfer requirements.

^ See page 52 for College Requirements / Θ A grade of C or better is required for all English course requirements. / * See pages 56-68 for Course Selections
Associate in Teaching Secondary Mathematics (17AB)

Students may obtain an Associate in Arts in Teaching Secondary Mathematics degree from the College of Lake County by successfully meeting college requirements and the course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions. The Associate in Arts in Teaching Secondary Mathematics degree, however, is not automatically accepted in whole for transfer at all participating IAI four-year colleges and universities in Illinois; therefore students must work with their intended transfer institutions to ensure transferability of specific courses. Students should also check with their intended transfer school regarding specific course requirements.

Students must pass the Illinois Test of Academic Proficiency in order to be awarded the A.A.T. degree.

Communication - 9 credit hours

A grade of C or better is required for both ENG courses.

- CMM 121 Fundamentals of Speech (3) C2 900
- ENG 121 English Composition I (3) C1 900
- ENG 122 English Composition II (3) C1 901 R or
- ENG 126 Advanced Composition: Scientific and Technical Communications (3) C1 901 R

Social and Behavioral Science - 9 credit hours

- PSY 121 Introduction to Psychology (3) S6 900
- PSY 226 Adolescent Development (3) S6 904

One other course from the list below:

- ANT 121+ Introduction to Anthropology (3) S1 900N
- ANT 221+ Cultural Anthropology (3) S1 901N
- ANT 222 Introduction to Physical Anthropology (3) S1 902
- ANT 224 Introduction to Archaeology (3) S1 903
- ANT 228+ Cross-Cultural Relationships (3) S1 904D
- ECO 221 Principles of Macroeconomics (3) S3 901
- ECO 222 Principles of Microeconomics (3) S3 902
- GEG 122 Cultural Geography (3) S4 900N
- GEG 123 World Regional Geography (3) S4 900N
- HST 121 History of Western Civilization I (3) S2 902
- HST 122 History of Western Civilization II (3) S2 903

Mathematics - 5 credit hours

- MTH 145 Calculus and Analytic Geometry I (5) M1 900-1

Humanities and Fine Arts - 9 credit hours

- PHI 122 Logic (3) H4 906

- Two other courses from the following lists must be completed.
- One course must be selected from the Humanities section and one course from the Fine Arts section.

Humanities - 3 credit hours minimum

- ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
- CHI 222+ Intermediate Chinese II (4) H1 900
- ENG 129+ Women in Literature (3) H3 911D
- ENG 223 Early American Literature (3) H3 914
- ENG 225 Survey of British Literature I (3) H3 912
- ENG 226 Survey of British Literature II (3) H3 913
- ENG 227 Introduction to Shakespeare (3) H3 905
- ENG 228+ World Literature (3) H3 906
- ENG 229 20th Century American Literature (3) H3 915
- ENG 241 Introduction to Poetry (3) H3 903
- ENG 243 Introduction to Fiction (3) H3 901
- ENG 244+ Mythology and Fairy Tales (3) H9 901
- ENG 246+ Latin American Writers (3) H3 908N
- ENG 247+ International Women Writers (3) H3 911D
- ENG 249 Children’s Literature (3) H3 918
- FRN 222+ Intermediate French II (4) H1 900
- FRN 223 French Civilization I (3) H1 900
- FRN 224 French Civilization II (3) H1 900
- GER 222+ Intermediate German II (4) H1 900
- GER 224 German Civilization II (3) H1 900
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) HF 902
- HUM 122+ Humanities: Renaissance to the Present (3) HF 903

Continued on next page.
Area of Concentration – 21 credit hours

Education:
- EDU 121 Introduction to Teaching (3)
- EDU 222 The Exceptional Child (3)
- EDU 242 Observational/Clinical Experience in Education (1)

Mathematics:
- MTH 146 Calculus and Analytic Geometry II (4) M1 900-2
- MTH 225 Linear Algebra (3)
- MTH 246 Calculus and Analytic Geometry III (4) M1 900-3

Math Comp/Sci:
- MCS 140 Computer Programming for Engineers and Scientists (3) CS 911

International/Multicultural Requirement
Include one course in International/Multicultural Education—Choose one course with a + following the course number. This course can fulfill both the I/M requirement and a Social Science, Humanities, or Fine Arts requirement.

Total A.A.T. in Secondary Mathematics Degree Requirements - 62 credit hours

Other Requirements for Awarding the A.A.T. in Secondary Mathematics
- Successfully pass the ICTS Test of Academic Proficiency (TAP).

Other Graduation Requirements
- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC

Note: For students wishing to obtain a teaching credential in the State of Illinois, a grade of C or above is compulsory for all coursework required for the teaching credential. This includes courses in the major, all education courses, and required general electives. This is effective for those applying for teacher certification as of 2012 (Illinois State Board of Education).