California State University, San Bernardino

B. A. in Mathematics
Integrated Teaching Track

BAITT

Program Information

Mathematics Department
Jack Brown Hall- JB 370
Phone: (909) 537-5361
www.math.csusb.edu

Teacher Education Office
College of Education- CE 102
Phone: (909) 537-5650
http://www.csusb.edu/coe/
http://coe.csusb.edu/programs/singleSubjectCred/index.htm

BATT/BAITT Mathematics Coordinator:
Dr. Laura Wallace
JB 381
email: wallace@csusb.edu

Updated 4/16/2013
B. A. in Mathematics
Integrated Teaching Track

BAITT

Program Information Contents

This packet of information includes the following handouts:

1. Preparing to Teach Mathematics at the Secondary Level (see Option 2)
2. Course Requirements (2012-2014 Bulletin)
3. Essential Information About the B.A. in Mathematics, Teaching Track Programs
4. BATT/BAITT Portfolio Requirements
5. BATT/BAITT Math Course Flowchart
6. General Education Checklist
7. Timeline Information
8. Program Admissions File (PAF) Checklist
9. Sample Degree Plan for Freshmen
10. Sample Degree Plan for Transfers
11. My Sample Degree Plan (to be filled in by student in consultation with advisor)
12. Department Approval Form for Completion of Lower Division Requirements
13. Department Approval Form for Demonstration of Subject Matter Competency (80% of mathematics units applicable to the BAITT degree)
Preparing to Teach Mathematics  
At the Secondary Level (Grades 7-12)

**Option 1:** Single Subject Credential in Mathematics – Traditional Fifth Year Program (to teach math at any secondary grade level)

As preparation for admission to the single subject credential program you need to:

1. Complete a Bachelor’s Degree program.
2. Demonstrate Subject Matter Competency by:
   a. Completing an approved Subject Matter Program in Mathematics. The B.A. in Mathematics, Teaching Track (BATT) at CSUSB is an approved program. (See [www.math.csusb.edu](http://www.math.csusb.edu) for a list of classes in the BATT)
   or
   b. Passing the CSET exam in Mathematics.  
      (See [http://www.cset.nesinc.com/CS_testguide_opener.asp](http://www.cset.nesinc.com/CS_testguide_opener.asp) for details) 
      Note that to earn a full Single Subject Credential CSET subtests I, II, and III must be passed.
3. Contact the Teacher Education Office regarding requirements for admission into the credential program. The C.A.S.E. office is located at CE 102.

**Option 2:** Single Subject Credential in Mathematics - Integrated Program (to teach math at any secondary grade level)  
The B.A. in Mathematics, Integrated Teaching Track (BAITT) allows students to complete their degree and credential simultaneously.  As preparation for admission into this program, see the BAITT Timeline in the BAITT Informational Packet available in the Mathematics Department (JB 370) and online at [www.math.csusb.edu](http://www.math.csusb.edu).

**Option 3:** Foundational Level Credential in Mathematics (to teach up through Algebra II)

As preparation for admission to the single subject credential program you need to:

1. Complete a Bachelor’s Degree program.
2. Demonstrate Subject Matter Competency by passing CSET subtests I and II. 
   Notes: a) This only allows one to teach up through Algebra II. 
   b) If you complete the BATT, you earn a full waiver of the CSET as outlined in option 1.
3. Contact the Teacher Education Office, located at CE 102, regarding requirements for admission into the credential program.

**Option 4:** Subject Matter Authorization in Mathematics (to teach math up through 9th grade level – Algebra I/Geometry)

To qualify for this program you must:

1. Possess a California Teaching Credential in any field (including Multiple Subjects).
2. Complete a California Commission on Teacher Credentialing (CCTC) approved program of 48 quarter units in mathematics. The Certificate in Introductory Mathematics at CSUSB is an approved program. See [http://catalog.csusb.edu/documents/2012-2014.pdf](http://catalog.csusb.edu/documents/2012-2014.pdf) (page 282) for a list of classes and [www.ctc.ca.gov/credentials/leaflets/c1852.pdf](http://www.ctc.ca.gov/credentials/leaflets/c1852.pdf) for details including how to apply for a Subject Matter Authorization through the CCTC.
This program allows prospective single-subject teachers the opportunity to earn their Bachelor of Arts in Mathematics and Single Subject Credential concurrently. Students in this program must be accepted into the Single Subject Teaching Credential Program prior to enrolling in education courses. Refer to the BA Integrated Teaching Track (BAITT) Timeline.

Total Units Required for Graduation: 203 units

Mathematics Required Courses (77 units)
1. MATH 199. Technology in Math Education through Problem Solving (3)
2. MATH 211. Basic Concepts of Calculus (4)
3. MATH 212. Calculus II (4)
4. MATH 213. Calculus III (4)
5. MATH 241. Problem Solving in Calculus (2)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)
8. MATH 329. Transformation Geometry (4)
9. MATH 331. Linear Algebra (4)
10. MATH 345. Number Theory and Proof (4)
11. MATH 355. Analysis and Proof (4)
12. MATH 372. Combinatorics (4)
13. MATH 399. Service Learning Experience in Mathematics (2)
14. MATH 465. Probability Theory (4)
15. MATH 480. Topics in History of Mathematics (4)
16. MATH 499. Mathematics in the Secondary Classroom (4)
17. MATH 529. Advanced Geometry (4)
18. MATH 545. Abstract Algebra I (4)
19. MATH 553. Analysis I (4)
20. MATH 565. Mathematical Statistics (4)
21. MATH 599. Senior Seminar for Future Mathematics Educators (2)

Mathematics Elective Courses (8 units)

Education Courses (44 units)
1. ESEC 405. Introduction to Secondary School Culture (4)
2. ESEC 407. Secondary School Teaching (4)
3. ESEC 410. Adolescent Development and Learning (4)
4. ESEC 413. Language Interaction in the Classroom (4)
5. ESEC 417. Educational Psychology: Instructional Theory, Assessment, Class Management (4)
6. ESEC 419. Literacy Across the Curriculum (4)
7. ESEC 520A. Subject Specific Pedagogy (1)
8. ESEC 520B. Designing Instruction (1)
9. ESEC 520C. Assessing Learning (1)
10. ESEC 520D. Culminating Teaching Experience (1)
11. ESEC 502. Special Topics for Undergraduates in Secondary Education (2)
12. ESEC 550A. Student Teaching (2)
13. ESEC 550B. Student Teaching (4)
14. ESEC 550C. Student Teaching (8)
Who should complete the Teaching Track?
All students who plan to enroll in a Single Subject Credential Program will need to verify subject matter competency in mathematics either by passing all three subtests of the CSET exam in mathematics or by completing an approved subject matter program. The Bachelors of Arts Teaching Track majors (BATT and BAITT) have been approved as waiver programs by the California Commission on Teacher Credentialing (www.ctc.ca.gov/).

What are the differences between the B.A. in Mathematics, Teaching Track programs (BATT/BAITT), and the B.A. in Mathematics (BA)?

- The BATT/BAITT are CSET waiver programs and the BA is not a waiver program.
- The BAITT includes credential coursework (203 units); the BATT and BA are degree programs only (180 units).
- The BAITT and BATT have the same mathematics course requirements, except for one less math elective in the BAITT.
- All courses required in the BA program are also required in the BATT/BAITT, except for CSE 201 and Math 270.
- While both the BATT and BA degree programs require 180 total units for graduation, the BATT requires 89 units of math, and the BA requires 74 units of math. Most of the additional units involve preparation for teaching mathematics as listed below.
- The following courses are additional requirements for the BATT/BAITT:
  - Math 480: Topics in History of Mathematics (4 units)
  - Math 529: Advanced Geometry (4 units)
  - Math 565: Mathematical Statistics (4 units)
  - Math 199: Technology in Math Education through Problem Solving (3 units)
  - Math 399: Service Learning Experience in Mathematics (2 units)
  - Math 499: Mathematics in the Secondary Classroom (4 units)
  - Math 599: Senior Seminar for Future Mathematics Educators (2 units)

What is Math 399 – Service Learning Experience in Mathematics?
Math 399 is the early field experience class in which students will spend 20 hours during the quarter visiting a high school or middle school classroom and subsequently reflecting and reporting on their experiences. The main purpose of this experience is for observation of student learning and reflection – you are not required to teach or present any lessons. As a visitor in a public school, you must obtain clearance from the school district and the State of California to enter the classroom. This may include having a TB skin test and a live scan completed as well as submitting an application for a Certificate of Clearance to the CCTC. This is the same procedure that you would need to complete to do student teaching in your credential program.

What is the Mathematics Portfolio?
As part of the assessment process in the BATT program, all students will collect a portfolio of their work throughout the program. Your completed and approved portfolio is one of the requirements for passing Math 599. See the “BATT/BAITT Portfolio Requirements” handout for more information including a list of required portfolio entries.
Purpose: In order to complete your secondary teaching track major in mathematics, you must create a Mathematics Portfolio. The main educational purposes of the portfolio are for you to compile important or illustrative pieces of your work, use these to synthesize what you have learned, and reflect on the significance of your learning and its application to your future career as a teacher. The portfolio should demonstrate your skill and growth in mathematics and your ability to solve problems, communicate mathematics, and write mathematics and mathematical proofs. When you take Math 599 you will be given reflection assignments based on your work in the program. You will also be given specific formatting guidelines for assembling your portfolio and a rubric for evaluation. You will submit your portfolio at the end of the quarter. It is the responsibility of the student to save his/her work and to submit a high-quality professional portfolio. Note that a professional portfolio will be an asset to you in your job search!

Each of the entries listed below will also have an introduction which provides your reflection on the qualities of your work (mathematically and pedagogically) and on your personal and professional growth in this area.

Required Portfolio Content Entries

- Three samples of your work involving technology from Technology in Math Education through Problem Solving (Math 199) or Problem Solving in Calculus (Math 241), each one focusing on a different type of technology. The three entries should include any projects that are completed in these courses.

- Three samples of work from Transformation Geometry (Math 329) and/or Advanced Geometry (Math 529), showing your personal skill and growth in constructing geometric proofs. The three entries can be a combination of homework assignments, quizzes, and exams.

- Three samples of work from Number Theory and Proof (Math 345) and/or Abstract Algebra (Math 545), showing your personal skill and growth in constructing mathematical proofs. The three entries can be a combination of homework assignments, quizzes, and exams.

- Three samples of work from Analysis and Proof (Math 355) and/or Analysis (Math 553), showing your personal skill and growth in constructing mathematical proofs. The three entries can be a combination of homework assignments, quizzes, and exams.

- Field Experience Reflection Observations (Math 399) in approved format.

- Project submitted in Topics in the History of Mathematics (Math 480).

- Project submitted in Mathematics in the Secondary Classroom (Math 499).

- Project submitted in Senior Seminar for Future Mathematics Educators (Math 599).

If you have any questions, please contact your mathematics faculty advisor or the BATT Coordinator, Dr. Laura Wallace at wallace@csusb.edu.
Department of Mathematics
B.A.-Teaching Track (BATT/BAITT)
Math Course Flowchart

Course Checklist

Required (77 units)
Lower Division (25):
- Math 199 (3) WS
- Math 211
- Math 212
- Math 213
- Math 241 (2)
- Math 251
- Math 252

Upper Division (52):
- Math 329
- Math 331
- Math 345
- Math 355
- Math 372
- Math 399 (2) FW
- Math 465
- Math 480
- Math 499 WS
- Math 529
- Math 549
- Math 553
- Math 565
- Math 599 (2) FS

Electives
BATT 12 units
BAITT 8 units

See Bulletin for Information on 510 595
General Education Checklist (2011-2012 Bulletin)

A. Basic Skills (12 units)
   1. Written Communication __________
   2. Oral Communication __________
   3. Mathematics  (category B1)
   4. Critical Thinking Math 180 recommended

B. Natural Sciences Breadth Area (20 units)
   1. Mathematics __________
   2. Life Sciences __________
   3. Physical Sciences __________
   4. Special Topics in Science and Technology __________
   5. Integrative Capstone __________

C. Humanities Breadth Area (20 units)
   1. Arts __________
   2. Literature __________
   3. Foreign Language or Literature in Translation __________
   4. Philosophy __________
   5. Integrative Capstone __________

D. Social and Behavioral Sciences Breadth Area (20 units)
   1. American History and Civilization __________
   2. American Institutions __________
   3. World Cultures __________
   4. Discipline Perspectives __________
   5. Integrative Capstone __________

E. Lifelong Understanding (6 units)
   1. The Whole Person: Physical/Phys. Issues __________
   2. The Whole Person: Social/Psych. Issues __________
   3. Physical Education __________

F. Upper-Division Writing* __________
   (* If met by proficiency exam, additional units may be necessary to meet minimum graduation requirements.)

G. Multicultural/Gender Requirement __________
   (This can be met by certain Integrative Capstone courses.)

******************************************************
Total Units Required for Graduation:

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Note: ESEC 506 is strongly recommended.
BA Integrated Teaching Track (BAITT) Timeline Information

See the BAITT Sample Degree Plans in coordination with following this timeline.

Before your Junior Year (and before entering COE Education coursework):

1. Obtain a Program Admission File Checklist (PAF) for the Single Subject Integrated Mathematics (see attachment to this document).
2. Obtain Math Department approval form for completion of lower division requirements, and have it signed by the Math Department Chair or designee (see attachment to this document).
3. Complete items 1-13 of the PAF Checklist for the BAITT. Note that this includes your Live Scan clearance.
5. Complete a Program Plan with a credential advisor.

By the end of Junior Year (and before entering COE Supervision courses):

1. Complete Math 399, Service Learning Experience in Mathematics, as soon as possible but no later than Fall of your Junior year. Math 399 may be taken with beginning Education coursework with the approval of the College of Education and must be taken before entering ESEC 550A.
2. CBEST: Take the CBEST as soon as possible but no later than Spring of your Junior year. You must have your CBEST results before you are approved for Student Teaching. If you have passed, but do not have a score of 39 or better in the written portion of the CBEST, you must take and pass NSCI 306 before Teacher Supervision, ESEC 550A,B,C.
3. Complete CPR certification (you may do this through the College of Extended Learning or the Red Cross, Level 2)
4. Make sure you will have demonstrated competency in mathematics by completing 80% of the units in mathematics applicable to the BA Integrated Teaching Track by the time you enter ESEC 550A,B,C (see item 14 on PAF Checklist). Obtain the Math Department Approval Form and have it filled out and signed by the Math Department Chair or designee (see attachment to this document).
5. See the Director of Teacher Supervision, Cathy Provencio (cprovenc@csusb.edu), in the Teacher Supervision Office (CE 102) early in the Spring quarter, to begin the process of placement for student teaching.
Single Subject Integrated Mathematics (BAITT) 
Program Admission File (PAF) Checklist

Student’s Name: ______________________ SID#: __________________

Items 1-13 must be completed before entering COE Credential/Education courses:

1. ______ Application for Credential Program Admission
   (downloaded at http://coe.csusb.edu/offices/program_admiss_forms_links.htm)
2. ______ Two Letters of Recommendation (form can be downloaded at above link)
3. ______ Junior Status (90 units)
4. ______ Completion of Lower Division Requirements - Math Department Approval Form
5. ______ Grade Point Average – cumulative GPA of 2.67 or higher
6. ______ Transcripts (for transfer students only, one official copy from each institution
   attended except CSUSB)
7. ______ CBEST Passed with scores: _____ Reading _______ Math _______ Writing
   See http://www.cbest.nesinc.com/ for registration and test information.
8. ______ Verification of Negative TB Skin Test Results
9. ______ Certificate of Clearance and Live Scan
   See http://coe.csusb.edu/offices/program_admiss_forms_links.htm for links,
   forms, and instructions. Live scans can be processed at the CSUSB Campus
   Police. For appointment, call (909)537-3552.
10. ______ Service Learning/ Math 399: Qtr _______ Grade _______
    Note: Math 399 may be taken concurrently with a beginning Education course
    with approval by the College of Education.
11. ______ Technology Requirement/Math 199: Qtr _______ Grade _______
12. ______ Program Plan (set appointment with advisor in College of Teacher Education)
13. ______ $35 Program Admission Filing Fee

Item 14 must be completed before entering COE Supervision courses (Student Teaching):

14. ______ Subject Matter Competency: Completion of 80% of the units in mathematics
    applicable to the B.A. in Mathematics Integrated Teaching Track.
    See the Math Department Approval Form.

Student’s Signature ___________________________ Date: ______________

Application Received by _______________________ Date: ______________

Distribution: White – Teacher Education Office     Yellow – Mathematics Department     Pink – Student
### BAITT Sample Degree Plan for Freshmen (2012-2014 Bulletin)*

**Degree:** BA Integrated Teaching Track

**Calculus ready**

**Years to Degree:** 4 Years*

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**Quarter Units:**

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**Total Units:** 203

*Notes:
1. Students are also required to satisfy the Upper Division Writing Requirement (GE - F) either through passage of the WREE or passage of an upper division writing course.
2. Students may need to apply for unit overload in any quarter with 18 or more units.
3. Students can consider taking classes in summer school to lighten the course load in the regular academic year.
4. ESEC 506 is strongly recommended.
### Department of Mathematics, CSUSB
### BAITT Sample Degree Plan
### for Transfer Students (2012-2014 Bulletin)*

**Degree:** BA Integrated Teaching Track  
**Calculus completed:**  
**Years to Degree:** 4 3 years

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<td>FWS</td>
<td>8</td>
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<tr>
<td>ESEC 502</td>
<td>FWS</td>
<td>2</td>
<td>ESEC 550B</td>
<td>FWS</td>
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<td>ESEC 550A</td>
<td>FWS</td>
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<tr>
<td>Quarter Units: 14</td>
<td>Quarter Units: 14</td>
<td>Quarter Units: 14</td>
<td>42</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Required Units: 203** (2012-2014 Bulletin)

**Notes**  
1. ESEC 506 is strongly recommended.
See BAITT Sample Degree Plans for Freshman and Transfer Students and the 2012-2014 Bulletin for changes in the Education coursework. Fill in mathematics and credential coursework following the requirements and guidelines on the Credential Program Plan and BAITT Timeline.

<table>
<thead>
<tr>
<th>Year/Quarters</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
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<tr>
<td>Year 2</td>
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<td>Year 3</td>
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<tr>
<td>Year 4</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Student’s Signature: _____________________________ Date: ______________

Advisor’s Signature: _____________________________ Date: ______________
B.A. in Mathematics, Integrated Teaching Track (BAITT) Department Approval Form For Completion of Lower Division Requirements

The student candidate whose name appears on this form is enrolled in the B.A. in Mathematics, Integrated Teaching Track and is completing requirements to begin Credential coursework. The purpose of this form is for verification that the student has completed the lower division mathematics requirements in order to enroll in education courses. This completed form is to be submitted to the Single Subject Credential Program Coordinator for review, and a copy is to be kept in the Department of Mathematics.

Name of Candidate __________________________ Phone # __________________________
Student ID # __________________________ CSUSB Email Address __________________________

Department Chair/Designee – Please check that all lower division mathematics requirements have been met by filling in the student’s course grades and current grade point average in the space provided below.

Lower-Division Requirements: Current GPA: __________

1. Math 199 __________
2. Math 211 __________
3. Math 212 __________
4. Math 213 __________
5. Math 241 __________
6. Math 251 __________
7. Math 252 __________

Department Chair/Designee Signature __________________________ Date __________
Candidate Signature __________________________ Date __________

Distribution: White – Teacher Education Office Yellow – Mathematics Department Pink – Student
B.A. in Mathematics, Integrated Teaching Track (BAITT)
Department Approval Form
For Demonstration of Subject Matter Competency

The student candidate whose name appears on this form is enrolled in the B.A. in Mathematics, Integrated Teaching Track and is completing requirements to begin Supervision coursework. The purpose of this form is for verification that the student has demonstrated Subject Matter Competency (SMC) by having completed 80% of units in mathematics applicable to the BAITT degree. This completed form is to be submitted to the Single Subject Credential Program Coordinator for review, and a copy is to be kept with the Department of Mathematics.

___________________________________________
Name of Candidate

___________________________________________
Phone #

____________________________
Student ID #

____________________________
CSUSB Email Address

Department Chair/Desigee – Please verify that 80% of the mathematics units applicable to the BAITT degree have been completed by checking the completed courses and filling in the unit totals below for lower division, upper division, and elective coursework. The BAITT has 85 units of mathematics courses (25 lower division units, 52 upper division units, 8 elective units), so at least 68 units must be completed prior to enrolling in Supervision courses.

<table>
<thead>
<tr>
<th>Lower Division (25)</th>
<th>Upper Division (52)</th>
<th>Electives (8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7. Math 465 (4)</td>
<td>14. Math 599 (2)</td>
<td></td>
</tr>
</tbody>
</table>

The above student must have previously completed the Department Approval Form for Completion of Lower Division Requirements.

| Lower Division units complete: | 25 |
| Upper Division units complete: |    |
| Elective units complete:       |    |

Total Mathematics units completed: _________  Percent complete: _________

___________________________________________
Department Chair/Desigee Signature

_______________
Date

___________________________________________
Candidate Signature

_______________
Date

Distribution: White – Teacher Education Office  Yellow – Mathematics Department  Pink – Student