# BACHELOR OF SCIENCE IN MATHEMATICS (IMPACTED) Option in Statistics Major Requirements Worksheet 2014-2015 Catalog 

Name:

Student ID:

This option provides a foundation in statistical methods. The courses required ensure that the student understands how the techniques are mathematically derived and how they are applied. Statistical analysis is an essential part of any scientific investigation and is a vital tool in monitoring the quality of products and services and in forecasting.

NOTE: This checklist is not intended to replace advising from the major department. Students should consult with the major advisor to determine the appropriate sequence of courses. This checklist is to inform students of major requirements and course prerequisites only. CSULB Enrollment Services prepares the Academic Requirements Report, which is the official graduation verification. Pre-Mathematics majors must complete their GE Foundation courses, and the highlighted areas below all with a "C" or better and a cumulative GPA of 2.5, by 60 units to be considered for the major.

| Semester | Grade | Course \# | Course Title | Prerequisites |
| :--- | :--- | :--- | :--- | :--- |
|  |  | MATH 122 | Calculus I (4) | Appropriate MDPT placement or <br> MATH 111* and 113* |
|  |  | MATH 123 | Calculus II (4) | MATH 122* |

UPPER DIVISION COURSES (See major faculty advisor)
Take a minimum of 34 UNITS of MATH or STAT courses to include the following:
(excludes MATH 303, MATH 370A or MATH 370B; can use MATH 233 to meet UD elective)

|  |  | MATH 323 | Introduction to Numerical Analysis (4) | MATH 224, and a course in <br> computer programing |
| :--- | :--- | :--- | :--- | :--- |
|  |  | MATH 361A | Introduction to Mathematical Analysis I (3) | MATH 224, and MATH 233 or <br> 247 |
|  |  | MATH 380 | Probability and Statistics (3) | MATH 224 |
|  |  | STAT 381 | Mathematical Statistics (3) | MATH 247 and MATH 380 |
|  |  | STAT 410 | Regression Analysis (3) | STAT 381 |
|  |  | STAT 450 | Multivariate Statistical Analysis (3) | STAT 381; <br> Pre/corequisite: STAT 410 |
|  |  |  | Data Analysis with SAS (3) | STAT 381 or consent of the <br> instructor |
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[^0]:    *Requires a "C" or better
    ** See Catalog for more detail

