Statistics

Graduate Programs
Admission Requirements
It is necessary to have an undergraduate degree, not necessarily in
statistics or mathematics, to begin a program of study toward the
master's degree in statistics. In some instances, it may be advantageous
to have an undergraduate degree in another field. However, the student
should have acquired a good mathematical background and some
statistical background as an undergraduate. Also, each student is
required to have completed CS 1113 Computer Science I (A) or to have
demonstrated competence in a programming language such as C. This
should be equivalent to the required courses in the bachelor's program:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2144</td>
<td>Calculus I (A)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2153</td>
<td>Calculus II (A)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2163</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>STAT 4013</td>
<td>Statistical Methods I (A)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3013</td>
<td>Linear Algebra (A) (not required for Applied</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MS)</td>
<td></td>
</tr>
<tr>
<td>MATH 4013</td>
<td>Calculus of Several Variables (not required</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>for Applied MS)</td>
<td></td>
</tr>
<tr>
<td>CS 1113</td>
<td>Computer Science I (A)</td>
<td>3</td>
</tr>
</tbody>
</table>

Students admitted to the program with deficiencies will be required to
remedy such deficiencies. MATH 3013 and MATH 4013 are not required
for the Master of Science in Applied Statistics.

The Master of Science Degree
The Master of Science degree in statistics is designed to prepare
students for work as a statistician or doctoral studies in statistics.
It may be completed by following one of the three plans listed in the
"Graduate College (http://catalog.okstate.edu/graduate-college/)" section
of the Catalog. Normally, the all-course work plan will be initiated at
the suggestion of the faculty. Each student will be required to attain an
introductory knowledge of some field of application outside of statistics,
mathematics, and computer science. This requirement may be satisfied
by having taken a three-hour graduate course in an approved field of
statistical application.

The Master of Science in Applied
Statistics Degree
The Master of Science in Applied Statistics (MSAS) degree can be
completed with online coursework. It is intended to be a terminal
professional master's degree. It is not intended to be preparation for
doctoral work in statistics. Neither comprehensive exams nor a thesis
or formal report is required for completion of this degree. A two-hour
creative component course is required at the end of the matriculation
through the program. More information regarding this degree can be
found on the OSU Statistics Department website.

The Doctor of Philosophy Degree
The PhD requires the completion of 90 hours beyond the BS degree. A
maximum of 30 of these credit hours may be earned by research for
the dissertation. Each student will be required to attain an introductory
knowledge of some field of application which may be satisfied by taking a