

Name:

**COLLEGE OF CHARLESTON**

CWID:

**Academic Requirements**

Date:

**B.S. Mathematics**

**Statistics Track**

**Undergraduate Catalog 2011-2012**

**----- General Education Requirements -----**

A minimum of 122 credit hours is required for graduation.

<b>ENGLISH</b>	ENGL 110	<input type="checkbox"/>	ENGL	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>▪ ENGL 110 is required unless credit is awarded for AP, IB and/or Transfer English credit.</li> <li>▪ Students with credit for English 101 &amp; 102 (6 hrs) satisfy the General Education requirement for English.</li> <li>▪ Students with English 101 credit (3 hrs) must complete English 110 (4 hrs) or 215 (3 hrs).</li> <li>▪ Students with English 102 credit (3 hrs) must complete English 110 (4 hrs) or 215 (3 hrs).</li> </ul>				
<b>HISTORY</b>	Pre-Modern History	<input type="checkbox"/>	Modern History	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>▪ (Six semester hours): Complete one course in pre-modern history and one course in modern history from the list of approved courses satisfying the history requirement. The two courses do not have to be taken from the same department or in sequence.</li> <li>▪ For a complete listing of approved courses, please consult your degree audit or visit: <a href="http://advising.cofc.edu/pdf/history-requirement.pdf">http://advising.cofc.edu/pdf/history-requirement.pdf</a></li> </ul>				
<b>NATURAL SCIENCE</b>	Lecture:	<input type="checkbox"/>	Lecture:	<input type="checkbox"/>
	Lab:	<input type="checkbox"/>	Lab:	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>▪ Eight semester hours (of which two semester hours must be earned in the accompanying laboratories): an introductory or higher <b>sequence</b> from one of the following: Astronomy (ASTR), Biology (BIOL), Chemistry (CHEM), Geology (GEOL), Physics (PHYS)</li> </ul>				
<b>MATHEMATICS/LOGIC</b>		<input type="checkbox"/>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>▪ Six semester hours of approved courses in mathematics or logic, in any combination.</li> <li>▪ For a complete listing of approved courses, please consult your degree audit or visit: <a href="http://advising.cofc.edu/pdf/math-logic-requirement.pdf">http://advising.cofc.edu/pdf/math-logic-requirement.pdf</a></li> </ul>				
<b>FOREIGN LANGUAGE</b>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>▪ Satisfactory completion of the 202 level or its equivalent from one of the following: ARBC, CHNS, FREN, GREK, GRMN, HBRW, HNDI, ITAL, JPNS, LATN, PORT, RUSS, or SPAN. (Native speakers of languages other than English may be exempt from further language study, contact the School of Languages, Cultures and World Affairs.)</li> <li>▪ Course level depends on placement. If you are beginning a new language, start with the 101 level.</li> </ul>				
<b>HUMANITIES</b>		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>▪ Twelve semester hours from the approved Humanities areas with no more than six semester hours in any one of the areas (except interdisciplinary HONS). For a complete listing of approved courses, please consult your degree audit or visit: <a href="http://advising.cofc.edu/pdf/humanities.pdf">http://advising.cofc.edu/pdf/humanities.pdf</a></li> </ul>				
<b>SOCIAL SCIENCES</b>		<input type="checkbox"/>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>▪ Six semester hours from one or two of the approved social science areas. For a complete listing of approved courses, please consult your degree audit or visit: <a href="http://advising.cofc.edu/pdf/social-sciences.pdf">http://advising.cofc.edu/pdf/social-sciences.pdf</a></li> </ul>				
<b>FIRST-YEAR EXPERIENCE</b>				<input type="checkbox"/>
<ul style="list-style-type: none"> <li>▪ All entering students with less than one year of college experience are required to complete a First-Year Experience (First-Year Seminar (FSYM), a Learning Community (LC), or an Honors College First-Year Experience course) within their first three consecutive academic terms.</li> <li>▪ For a complete listing of approved courses, please visit: <a href="http://www.cofc.edu/fye">www.cofc.edu/fye</a></li> </ul>				
<b>GENERAL ELECTIVES</b>				
<ul style="list-style-type: none"> <li>▪ Required hours will vary for each student.</li> </ul>				

----- Requirements for B.S. Mathematics -----  
**Statistics Track**

You must achieve a minimum cumulative GPA of 2.0 in MATH courses that are acceptable for credit toward the major.

**CORE COURSES :**

		<b>Credits</b>	<b>Comments</b>
<input type="checkbox"/>	MATH <u>120</u> Introductory Calculus	(4)	_____
<input type="checkbox"/>	MATH <u>203</u> Linear Algebra	(3)	_____
<input type="checkbox"/>	MATH <u>220</u> Calculus II	(4)	_____
<input type="checkbox"/>	MATH <u>221</u> Calculus III	(4)	_____

**STATISTICS CONCENTRATION :**

<input type="checkbox"/>	MATH <u>295</u> An Introduction to Abstract Mathematics	(3)	_____
<input type="checkbox"/>	MATH <u>311</u> Advanced Calculus I	(3)	_____
<input type="checkbox"/>	MATH <u>250</u> Statistical Methods I	(3)	_____
<input type="checkbox"/>	MATH <u>350</u> Statistical Methods II	(3)	_____
<input type="checkbox"/>	MATH <u>430</u> Mathematical Statistics I	(3)	_____
<input type="checkbox"/>	MATH <u>431</u> Mathematical Statistics II	(3)	_____

**ONE OF THE FOLLOWING COURSE/LAB PAIRS:**

<input type="checkbox"/>	CSCI <u>220</u> Computer Programming I	(3)	_____
<input type="checkbox"/>	CSCI <u>222</u> Computer Programming I Lab	(1)	_____
<b>OR</b>			
<input type="checkbox"/>	MATH <u>245</u> Numerical Methods and Mathematical Computing	(3)	_____
<input type="checkbox"/>	MATH <u>246</u> Mathematical Computing and Programming Lab	(1)	_____

**SIX ADDITIONAL HOURS CHOSEN FROM THE FOLLOWING COURSES:**

MATH 440 Statistical Learning I	MATH 451 Linear Programming	MATH 455 Bayesian Statistical Methods	
MATH 441 Statistical Learning II	MATH 452 Operations Research	MATH 475 Statistical Consulting	
CSCI 334 Data Mining			
<input type="checkbox"/>	_____      MATH Elective	(3)	_____
<input type="checkbox"/>	_____      MATH Elective	(3)	_____

**NOTES:** MATH 475 Statistical Consulting is the recommended capstone for this track.