



**Recommended Plan of Study for Applied Mathematics 2019-2020**

**First Semester**

**First Year**

Old Testament Survey 1 (BT 102)	3( )
Survey of Doctrine (BT 151)	3( )
Christian Life and Worldview (HUM 111) <i>or</i> Introduction to Biblical Interpretation (BT 120)	3( )
English Composition (ENG 101)	3( )
<b>Survey of Mathematics (MAT 130)</b>	3( )
Transitions Seminar (FND 101)	.5( )
Servant Leader Training Seminar (CCS 115)	.5( )
Chapel (CCS 110)	P/F( )

**Total Credits 16**

**Second Year**

Fundamental Computer Literacy (CS 101)	3( )
Fundamentals of Speech (COM 112)	3( )
<b>Analytic Geometry and Calculus 1 (MAT 172)</b>	4( )
<b>Linear Algebra and Matrix Theory (MAT 210)</b>	3( )
Elective	3( )
Servant Leader Training (CCS 120)	P/F( )
Chapel (CCS 110)	P/F( )

**Total Credits 16**

**Third Year**

Biblical and Practical Theology of Transformation (BT 352)	3( )
Humanities Elective	3( )
<b>Differential Equations (MAT 260)</b>	3( )
<b>Numerical Computation (CS 270)</b>	3( )
<b>Probability and Statistics (MAT 310)</b>	3( )
Servant Leader Training (CCS 120)	P/F( )
Chapel (CCS 110)	P/F( )

**Total Credits 15**

**Fourth Year**

Theology Elective (BT 221, BT 321, <i>or</i> BT 331)	3( )
<b>Operations Research (MAT 430)</b>	3( )
<b>Mathematical Methods in Private/Public Sectors (MAT 450)</b>	3( )
<b>Applied Mathematics Elective</b>	3( )
Elective	3( )
Senior Seminar (FND 410)	.5( )
Servant Leader Training (CCS 120)	P/F( )
Chapel (CCS 110)	P/F( )

**Total Credits 15.5**

**Second Semester**

**First Year**

Old Testament Survey 2 (BT 104)	3( )
New Testament Survey (BT 106)	3( )
Introduction to Biblical Interpretation (BT 120) <i>or</i> Christian Life and Worldview (HUM 111)	3( )
Introduction to Literature (ENG 102)	3( )
<b>Pre-Calculus (MAT 162) <i>or</i> demonstrated proficiency</b>	3( )
<b>Discrete Mathematics (MAT/CS 220)</b>	3( )
Servant Leader Training (CCS 120)	P/F( )
Chapel (CCS 110)	P/F( )

**Total Credits 15/18**

**Second Year**

Biblical Hermeneutics (BT 220)	3( )
Introduction to Earth Science and Lab (SCI 230/231)	4( )
<b>Analytic Geometry and Calculus 2 (MAT 182)</b>	4( )
<b>Mathematical Logic (MAT 340)</b>	3( )
Elective	3( )
Servant Leader Training (CCS 120)	P/F( )
Chapel (CCS 110)	P/F( )

**Total Credits 17**

**Third Year**

Praxis of Interpretation (BT 320)	3( )
Microeconomics (ECN 205)	3( )
Western Civilization 2 (HIS 132) <i>or</i> American History 1 (HIS 235)	3( )
<b>Analytical Statistics (MAT 315)</b>	3( )
<b>Numerical Analysis (MAT/CS 365)</b>	3( )
Servant Leader Training (CCS 120)	P/F( )
Chapel (CCS 110)	P/F( )

**Total Credits 15**

**Fourth Year**

Theology Elective (BT 221, BT 321, <i>or</i> BT 331)	3( )
<b>Systems Simulation (MAT/CS 470)</b>	3( )
<b>Applied Mathematics Internship (MAT 480)</b>	3( )
<b>Applied Mathematics Elective</b>	3( )
Elective	3( )
Servant Leader Training (CCS 120)	P/F( )
Chapel (CCS 110)	P/F( )

**Total Credits 15**

**Total Credits Needed: 124.5 / 127.5**