BACHELOR OF ARTS
PHYSICS

THOMAS MORE UNIVERSITY

2021 – 2022 Degree Requirements Checklist

CORE CURRICULUM REQUIREMENTS*	CREDIT HOURS
FIRST YEAR SEMINAR	**1**
☐ FYE 150, First Year Exploration	
ENGLISH	**6**
☐ ENG 150, Literature, Writing and Research	
☐ ENG 200+: _____	
MATHEMATICS	**3**
☑ Fulfilled within the major requirements	
SOCIAL SCIENCE	**6**
☐ _____	
☐ _____	
COMMUNICATION	**3**
☐ _____	
HISTORY	**6**
☐ _____	
☐ _____	
FOREIGN LANGUAGE *(two semesters in same language)*	**3-6**
☐ _____	
☐ _____	
NATURAL SCIENCE	**6-7**
☑ Fulfilled within the major requirements	
☑ Fulfilled within the major requirements	
PHILOSOPHY	**6**
☐ _____	
☐ _____	
FINE ARTS *(Art, Music, Theatre or Creative Writing courses)*	**5-6**
☐ _____	
☐ _____	
THEOLOGY	**6**
☐ Systematic Theology course: _____	
☐ Sacred Scripture course: _____	
SENIOR THEOLOGY	**3**
☐ _____	
TOTAL HOURS OF CORE REQUIREMENTS	***56-61***

*Please reference the 2021 Core column on the Schedule of Classes for core options

MAJOR CORE REQUIREMENTS	CREDIT HOURS
PHYSICS	**33**
☐ PHY 141 / 141L, Introduction to Measurement & Lab	
☐ PHY 142 / 142L, Introduction to Measurement II & Lab	
☐ PHY 241, General Physics	
☐ PHY 241L, Introduction to Measurement III	
☐ PHY 242, Modern Physics	
☐ PHY 312, Classical Mechanics	
☐ PHY 321, Advanced Experimental Physics I	
☐ PHY 322, Advanced Experimental Physics II	
☐ PHY 490, Advanced Research Proposal	
☐ PHY 491, Advanced Research Projects in Physics	
☐ PHY 498, Senior Seminar	
☐ 6 credit hours from Physics courses that are numbered 200 or higher (excluding those cross-listed as NSP/PHY)	
MATHEMATICS	**19**
☐ MAT 151, Calculus Analytic Geometry I	
☐ MAT 152, Calculus Analytic Geometry II	
☐ MAT 201, Calculus Analytic Geometry III	
☐ MAT 202, Differential Equations	
☐ MAT 320, Linear Algebra	
LEARNING PLAN	**15+**
☐ A sequence of at least 15 credit hours that is developed by the student and advisor	
EXPERIENTIAL LEARNING	**6**
☑ PHY 490, Advanced Research Proposal *	
☑ PHY 491, Advanced Research Projects in Physics *	
TOTAL HOURS OF PHYSICS CORE	***67***
TOTAL HOURS REQUIRED FOR ANY BACHELOR DEGREE	
Students admitted during or after Fall 2017	***120***
Students admitted prior to Fall 2017	***128***

<u>Please note:</u> A student seeking a degree in Physics must earn a grade of "C" or better in all Physics (PHY) and support courses required for the major courses.

BACHELOR OF SCIENCE
PHYSICS
(MINOR IN MATHEMATICS)

THOMAS MORE UNIVERSITY

2021 – 2022 Degree Requirements Checklist

CORE CURRICULUM REQUIREMENTS*	CREDIT HOURS
FIRST YEAR SEMINAR	**1**
☐ FYE 150, First Year Exploration	
ENGLISH	**6**
☐ ENG 150, Literature, Writing and Research	
☐ ENG 200+: _____	
MATHEMATICS	**3**
☑ Fulfilled within the major requirements	
SOCIAL SCIENCE	**6**
☐ _____	
☐ _____	
COMMUNICATION	**3**
☐ _____	
HISTORY	**6**
☐ _____	
☐ _____	
FOREIGN LANGUAGE *(two semesters in same language)*	**3-6**
☐ _____	
☐ _____	
NATURAL SCIENCE	**6-7**
☑ Fulfilled within the major requirements	
☑ Fulfilled within the major requirements	
PHILOSOPHY	**6**
☐ _____	
☐ _____	
FINE ARTS *(Art, Music, Theatre or Creative Writing courses)*	**5-6**
☐ _____	
☐ _____	
THEOLOGY	**6**
☐ Systematic Theology course: _____	
☐ Sacred Scripture course: _____	
SENIOR THEOLOGY	**3**
☐ _____	
TOTAL HOURS OF CORE REQUIREMENTS	***56-61***

*Please reference the 2021 Core column on the Schedule of Classes for core options

MAJOR CORE REQUIREMENTS	CREDIT HOURS
PHYSICS	**44**
☐ PHY 141 / 141L, Introduction to Measurement & Lab	
☐ PHY 142 / 142L, Introduction to Measurement II & Lab	
☐ PHY 241, General Physics	
☐ PHY 241L, Introduction to Measurement III	
☐ PHY 242, Modern Physics	
☐ PHY 251, Electronics	
☐ PHY 312, Classical Mechanics	
☐ PHY 321, Advanced Experimental Physics I	
☐ PHY 322, Advanced Experimental Physics II	
☐ PHY 416, Quantum Mechanics	
☐ PHY 432, Electromagnetism	
☐ PHY 490, Advanced Research Proposal	
☐ PHY 491, Advanced Research Projects in Physics	
☐ PHY 498, Senior Seminar	
☐ 6 credit hours from Physics courses that are numbered 300 or higher	
MATHEMATICS	**25**
☐ MAT 151, Calculus Analytic Geometry I	
☐ MAT 152, Calculus Analytic Geometry II	
☐ MAT 201, Calculus Analytic Geometry III	
☐ MAT 202, Differential Equations	
☐ MAT 310, Partial Differential Equations	
☐ MAT 320, Linear Algebra	
☐ 3 credit hours from Mathematics courses that are numbered at or above MAT 231	
EXPERIENTIAL LEARNING	**3**
☑ PHY 490, Advanced Research Proposal	
☑ PHY 491, Advanced Research Projects in Physics	
RECOMMENDED COURSES	
☐ CHE 111 / 111L, General Chemistry I & Lab	
☐ CHE 113 / 113L, General Chemistry II & Lab	
☐ PHY 311, Statics	
TOTAL HOURS OF PHYSICS CORE	***69***
TOTAL HOURS REQUIRED FOR ANY BACHELOR DEGREE	
Students admitted during or after Fall 2017	***120***
Students admitted prior to Fall 2017	***128***

<u>Please note:</u> A student seeking a degree in Physics must earn a grade of "C" or better in all Physics (PHY) and support courses required for the major courses.