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**THIS IS A WORKSHEET ONLY AND REPRESENTS THE REQUIREMENTS IN EFFECT AT THE TIME CREATED.
MAJOR REQUIREMENTS AND OFFERINGS MAY CHANGE AT THE DISCRETION OF THE DEPARTMENT**

Name: _____

Advisor: _____

Minimum graduation credits: 124

Catalog: 2009 - 2010

Minimum gpa in major: _____

Transfer credits: _____

PHYSICS

Engineering Physics Concentration

CORE REQUIREMENTS

MINIMUM OF 20 CREDITS AT GORDON

COURSES IN MAJOR

COMMON COURSES (36 credits)

COR 107	The Great Conversation	4	_____
BCM 101	Old Testament	4	_____
BCM 103	New Testament	4	_____
PHI 118	The Examined Life	4	_____
HIS 121	Historical Perspectives	4	_____
NSM 202	Scientific Enterprise – <i>waived by major</i>	4	_____
BCM 308	Christian Theology	4	_____

FOREIGN LANGUAGE

_____	(Begin Lang I)	4	_____
_____	(Begin Lang II)	4	_____

PHYSICAL EDUCATION

PED _____	LaVida or Discovery	0	_____
	(Concepts of Wellness by petition only)		
PED _____	(PE Activity)	0	_____
PED _____	(PE Activity)	0	_____

THEMATIC COURSES (20 credits)

*At least one must be fulfilled with an approved literature course;
minimum 3 courses at Gordon.*

Natural World *Can be fulfilled with MAT141*

_____	_____	4	_____
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Human Person

_____	_____	4	_____
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Aesthetic Sensibilities

_____	_____	4	_____
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Civic Responsibility

_____	_____	4	_____
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Global Understanding*

_____	_____	0-4	_____
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*Global Understanding may be fulfilled in a variety of ways through study abroad, approved missions trips, or appropriate courses.

REQUIRED COURSES

PHY 121	Intro Physics I	4	_____
PHY 122	Intro Physics II	4	_____
PHY 130	First Year Phys Sem	1	_____
PHY 214	Math Meth Phys I	4	_____
PHY 236	Modern Physics	4	_____
PHY 314	Mechanics	4	_____
PHY 339	Elect & Magn I	4	_____
PHY 391	Junior Sem I	0	_____
PHY 392	Junior Sem II	0	_____
PHY 471	Research I	1-4	_____
PHY 472	Research II	1-4	_____
PHY 491	Senior Sem I	1	_____
PHY 492	Senior Sem II	1	_____
MAT 141	Calculus I	4	_____
MAT 142	Calculus II	4	_____
MAT 223	Calculus III	2	_____
MAT 225	Differential Equations	4	_____

One of the Following Sequences:

Chemistry:

CHE 111	Principles of Chemistry I	4	_____
CHE 112	Principles of Chemistry II	4	_____

Computer Science:

CPS 121	Introduction to Programming	4	_____
CPS 122	Object-Oriented Software Development	4	_____

Concentration Courses

PHY 125	Intro to Engineering/Appl Sci	2	_____
PHY 216	Statics	4	_____
PHY 225	Electronics	4	_____
PHY 328	Strength of Materials OR	4	_____
PHY 371	Selected Topics	1-4	_____

Strongly Recommended

PHY 355	Quantum Mechanics	4	_____
PHY 372	Thermal Physics	4	_____

ELECTIVES – If required to reach 124 minimum

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Name: _____

Catalog: 2009 – 2010

Transfer credits:

PHYSICS
3-2 Engineering Program

CORE REQUIREMENTS
MINIMUM OF 20 CREDITS AT GORDON

COURSES IN MAJOR

COMMON COURSES (36 credits)

COR 107	The Great Conversation	4	_____
BCM 101	Old Testament	4	_____
BCM 103	New Testament	4	_____
PHI 118	The Examined Life	4	_____
HIS 121	Historical Perspectives	4	_____
NSM 202	Scientific Enterprise	4	_____
BCM 280	Christian Theology	4	_____

FOREIGN LANGUAGE

FOREIGN LANGUAGE

___ ___ (First semester language) 4 ___

___ ___ (Second semester language) 4 ___

PHYSICAL EDUCATION

PED ____ LaVida or Discovery	0	_____
(Concepts of Wellness by petition only)		
PED ____ (PE Activity)	0	_____
PED ____ (PE Activity)	0	_____

THEMATIC COURSES (20 credits)

At least one must be fulfilled with an approved literature course; minimum 3 courses at Gordon.

Natural World *Can be fulfilled with MAT141*

4

Human Person

4

Aesthetic Sensibilities

4

Civic Responsibility

4

Gobal Understanding*

_____ 0-4 _____

*Global Understanding may be fulfilled in a variety of ways through study abroad, approved missions trips, or appropriate courses.

REQUIRED COURSES

PHY 121	Intro Physics I	4
PHY 122	Intro Physics II	4
PHY 125	Intro to Engineering and Applied Sciences	2
PHY 214	Mathematical Methods in Physics I	4
PHY 216	Statics	4
PHY 225	Electrical and Electronic Circuits	4
PHY 236	Modern Physics	4
PHY 314	Mechanics	4
PHY 328	Strength of Materials	4
CHE 111	Principles of Chemistry I	4
CPS 121	Introduction to Programming	4
MAT 141	Calculus I	4
MAT 142	Calculus II	4
MAT 223	Calculus III	2
MAT 225	Differential Equations	4

ELECTIVES

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