

PHYSICS – BUSINESS

BACHELOR OF SCIENCE (B.S.)

CORE Requirements	Credits	Physics Requirements	Credits	Business Requirements	Credits
CORE 090 First Yr Exp.	1	PHYS 113 Physics for Sci. & Eng. I	3	ECON 112 Micro Economics	3
CORE 100 Lib Arts Sem.	3	PHYS 113L Phys. for Sci/Eng. I Lab	1	ECON 221 Quant. Meth. for Bus.& Econ	3
CORE 110 Effect Writ.	3	PHYS 114 Physics for Sci. & Eng. II	3	MSB 110 Intro to Financial Reporting	3
CORE 115 or 116 Oral Comm.	3	PHYS 114L Phys. for Sci/Eng. II Lab	1	MSB 120 Intro to Mgmt Control & Plan	3
CORE 131 or 133 Civilization	3	PHYS 231 Modern Physics	3	MSB 200 Principles of Management	3
CORE 140 or 141-145 Forgn.	3	PHYS 231L Modern Physics Lab	1	MSB 210 Principles of Marketing	3
CORE 153 Macro Econ	3	PHYS 330 Classical Mech.	3	MSB 220 Financial Management	3
CORE 160-164 Literature	3	PHYS 350 Thermo/Stat. Mech.	3	Business Elective 1 ⁴	3
CORE 170-179 The Arts	3	PHYS 371 Electricity & Magnetism I	3	Business Elective 2 ⁴	3
CORE 180-189 Amer. Studies ¹	3	PHYS 440 Quantum Mech.	3		
CORE 190-199 Global Stud ^{1,2}	3	PHYS 490 Senior Seminar	2		
CORE 250-259 Syst. Theology	3	PHYS Elective	3		
CORE 260-269 Mor. Theology	3	PHYS Elective	3		
CORE 280 Philos. I	3	PHYS Elective	3		
CORE 281-289 Philos. II ³	3	CHEM 113 Gen. Chem. I	3		
		CHEM 113L Gen. Chem. I Lab	1		
		CHEM 114 Gen. Chem. II	3		
		CHEM 114L Gen. Chem. II Lab	1		
		MATH 129 Calculus I	4		
		MATH 130 Calculus II	4		
		MATH 231 Calculus III	4		
		MATH 237 Applied Linear Algebra	3		
		MATH 238 Diff. Equations	3		
	43		61		27

Total Credits = 131

Physics Electives - In addition to the Major Sequence requirements, a Physics Major must also complete a minimum of three (3) upper-level PHYS courses numbered 231 or higher. Some elective courses have a required laboratory component. Some courses in MATH or CHEM may be cross-listed as PHYS. One Physics Elective can be satisfied with 3-credits of student research.

Physics Electives			
PHYS 241	PHYS 233 [#]	PHYS 372 [#]	PHYS 340 [#]
PHYS 242	PHYS 234	PHYS 320 [#]	PHYS 450 [#]
[#] Appropriate preparation courses for physics graduate programs			

¹Since CORE 153 is a course requirement, students are required to take CORE 180 OR CORE 190 to fulfill the Interdisciplinary CORE requirement.

- If a student takes CORE 180, then he/she should choose from 191 – 198 to fulfill the 19x requirement.
- If a student takes CORE 190, then he/she should choose from 181 – 188 to fulfill the 18x requirement

²Students are encouraged to take CORE 193 – Globalization to fulfill the Global Studies requirement.

³Students are encouraged to take either MSB 287 – Business Ethics, CORE 284 – Environmental Ethics, or CORE 288 – Bioethics to fulfill the Philosophy II requirement.

⁴Physics students are encouraged to pursue the following Fall/Spring course sequences to fulfill the Business Elective 1 and 2 requirements:

- Technology Management: BUS 363 – Operations Management and BUS 435 – Global Innovation, Technology & Entrepreneurship
- Manufacturing & Operations Management: MKT 385 – Supply Chain Management and BUS 363 – Operations Management
- Marketing: MKT 330 – Selling Strategies and MKT 390 – International Marketing
- Entrepreneurship: BUS 330 – Business Entrepreneurship and BUS 455 – Global Innovation, Technology & Entrepreneurship

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SUGGESTED SEQUENCE

- Use the information below as a guide when selecting courses.
- Refer to the reverse side when selecting major courses, major electives, core courses, and free electives when applicable.
- Consult your Academic Advisor prior to course registration.
- Refer to the King's College Catalog and/or website for course titles and descriptions.
- Choose one course from each CORE category as listed on the reverse side.
 - CORE courses may be taken in any order approved by the academic advisor with the following conditions:
 - CORE 100 and CORE 110 should be taken in the first year.
 - CORE 115 (or 116) should be taken within the first two years.
 - For students selecting a Foreign Language (CORE 14x), every effort should be made to register for that language in the first available semester at King's.

1 st Year - Fall		cr.	1 st Year - Spring		cr.
_____	CHEM 113 Gen. Chem. I	3	_____	CHEM 114 Gen. Chem. II	3
_____	CHEM 113L Gen. Chem. I Lab	1	_____	CHEM 114L Gen. Chem. II Lab	1
_____	PHYS 113 Physics for Scientists & Engineers I	3	_____	PHYS 114 Physics for Scientists & Engineers II	3
_____	PHYS 113L Physics for Sci. & Eng. I Lab	1	_____	PHYS 114L Physics for Sci. & Eng. II Lab	1
_____	MATH 129 Calculus I	4	_____	MATH 130 Calculus II	4
_____	CORE	3	_____	CORE	3
_____	CORE 090 First Year Exp.	1			
		16			15
2 nd Year - Fall			2 nd Year - Spring		
_____	PHYS 231 Modern Physics	3	_____	PHYS 330 Classical Mech.	3
_____	PHYS 231L Modern Physics Lab	1	_____	Physics Elective	3
_____	MATH 231 Calculus III	4	_____	MATH 238 Diff. Equations	3
_____	MATH 237 Applied Linear Algebra	3	_____	ECON 112 Micro Economics	3
_____	CORE 153 Macro Economics	3	_____	CORE	3
_____	CORE	3			
		17			15
3 rd Year - Fall			3 rd Year - Spring		
_____	PHYS 371 Electricity & Magnetism I	3	_____	Physics Elective	3
_____	MSB 200 Principles of Management	3	_____	MSB 210 Principles of Marketing	3
_____	MSB 110 Intro to Financial Reporting	3	_____	MSB 120 Intro to Mgmt Control & Plan	3
_____	CORE	3	_____	CORE	3
_____	CORE	3	_____	CORE	3
_____	CORE	3	_____	CORE	3
		18			18
4 th Year - Fall			4 th Year - Spring		
_____	PHYS 350 Thermo/Stat. Mech.	3	_____	PHYS 490 Senior Seminar	2
_____	ECON 221 Business Statistics	3	_____	PHYS 440 Quantum Mech.	3
_____	Business Elective 1 ⁴	3	_____	Physics Elective	3
_____	CORE	3	_____	MSB 220 Financial Management	3
_____	CORE	3	_____	Business Elective 2 ⁴	3
_____		3	_____	CORE	3
		15			17

Total Credits Required for Graduation = 131