

# Physics and Master of Business Administration (BS, MBA)

## Degree Program Guide

Course	Title	Credit Hours
<b>Freshman</b>		
<b>Fall</b>		
ENGL 110C	English Composition (Grade of C or better required)	3
MATH 211	Calculus I	4
Human Creativity		3
Oral Communication		3
Elective or Language & Culture I (May be waived; See requirement details)		3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
ENGL 211C or ENGL 231C (Grade of C or better required)		3
MATH 212	Calculus II	4
CS 151 or CS 153	Introduction to Programming with Java or Introduction to Programming with Python	4
Human Behavior		3
Elective or Language & Culture II (May be waived; See requirement details)		0-3
<b>Credit Hours</b>		<b>14-17</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 121N and CHEM 122N*		4
PHYS 261N or PHYS 231N or PHYS 226N	Advanced University Physics I or University Physics I or Honors: University Physics I	4
Information Literacy and Research: CS 120G or CS 121G or OEAS 130G		3
Literature		3
<b>Credit Hours</b>		<b>14</b>
<b>Spring</b>		
CHEM 123N and CHEM 124N*		4
MATH 312 or MATH 285		4
PHYS 262N or PHYS 232N or PHYS 227N	Advanced University Physics II or University Physics II or Honors: University Physics II	4
Impact of Technology		3
<b>Credit Hours</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
MATH 307 or MATH 280		3
PHYS 323	Modern Physics	3
PHYS 303	Intermediate Experimental Physics	3

PHYS 355	Mathematical Methods of Physics	3
PHYS 425	Electromagnetism I	3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
PHYS 319	Analytical Mechanics	3
PHYS 413	Methods of Experimental Physics	3
MATH 316 or MATH 401 or MATH 421 or MATH 422		3
MBA Course		1
Interpreting the Past		3
Philosophy and Ethics		3
<b>Credit Hours</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
PHYS 452	Introduction to Quantum Mechanics	3
ASTP 414 or PHYS 411 or PHYS 420 *		3
PHYS 499W or PHYS 489W and PHYS 490W (C or better required)*		3
MBA courses		7
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
ASTP 313 or PHYS 415 or PHYS 416 or PHYS 417 *		3
PHYS 454	Thermal and Statistical Physics	3
Approved Physics Seminar*		1
MBA courses		9
<b>Credit Hours</b>		<b>16</b>
<b>Fifth Year</b>		
<b>Fall</b>		
MBA courses		14
<b>Credit Hours</b>		<b>14</b>
<b>Spring</b>		
MBA courses		14
<b>Credit Hours</b>		<b>14</b>
<b>Total Credit Hours</b>		<b>150-153</b>

\*PHYS 420 is offered fall semester only. ASTP 313, PHYS 453, and PHYS 456 are offered spring semester only.