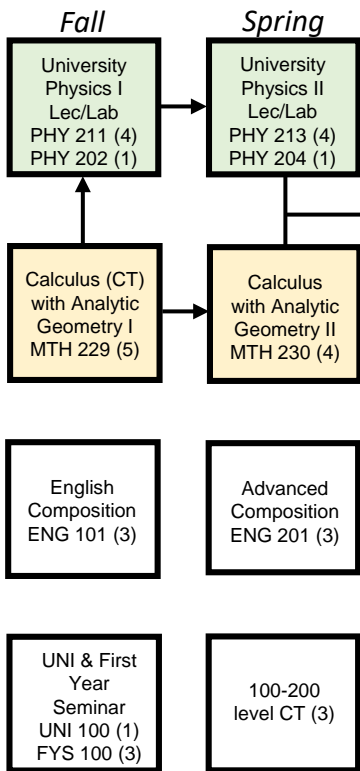
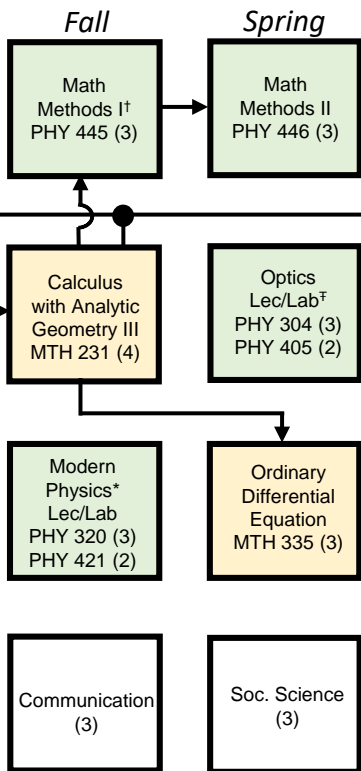


BS in Physics : Sample Curriculum (Revision 6- 26-19)

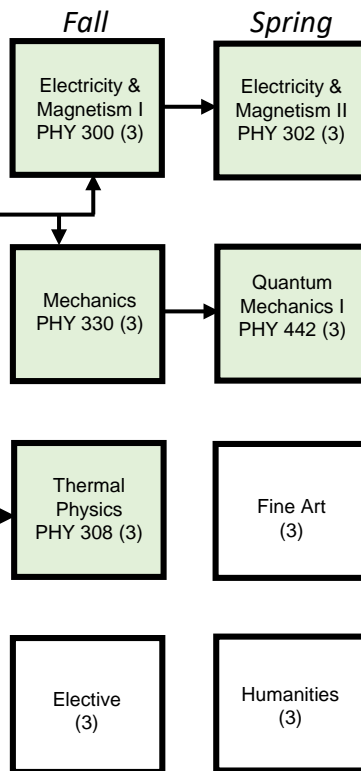
First Year



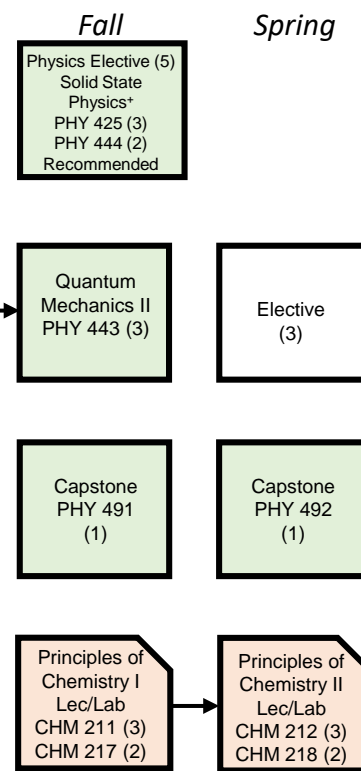
★Second Year



★Third Year



★Fourth Year



The General Education Requirements:

Core I: FYS 100 (3) 100-200 level CT (6)	Core II: ENG Composition (6) Communication (3) Math (3) Physical or Natural Science (4) Social Science (3) Humanities (3) Fine Arts (3)
Additional Requirements: Writing Intensive (6) Multicultural or International (3)	

MTH 335 is not required for the Math minor. If interested in mathematical proofs and picking up a minor in Math, take MTH 300 as one of your electives.

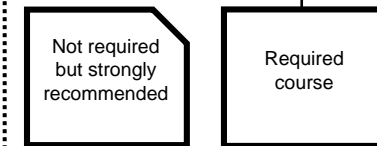
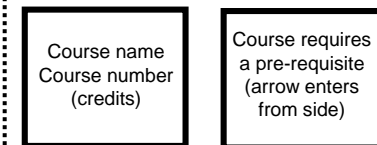
*Modern Physics (PR: PHY 203 or 213 and MTH 140 or MTH 230)
[‡] Optics (PR: PHY 203 or 213)
[†] Math Methods I (PR: PHY 203 or 213 and MTH 231 or permission)
⁺ Solid State Physics (CR/PR: PHY 320 or 442 or CHM 442)

★ Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.

★ Let the Department Chair know if you have an interest in a particular elective course as soon as possible

• This is a sample curriculum only, the order of courses you take could be different depending on your year of entrance.

• All students must take more than 2 credits hours of capstone research



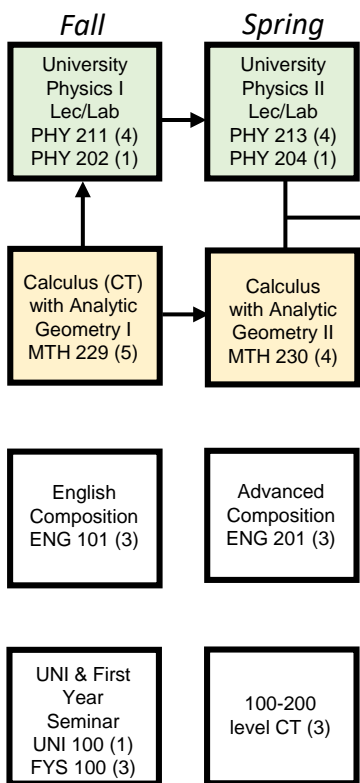
Total Hours:
120

If you have questions or find inconsistencies, please contact
 Dr. Sean P. McBride
mcbrides@marshall.edu

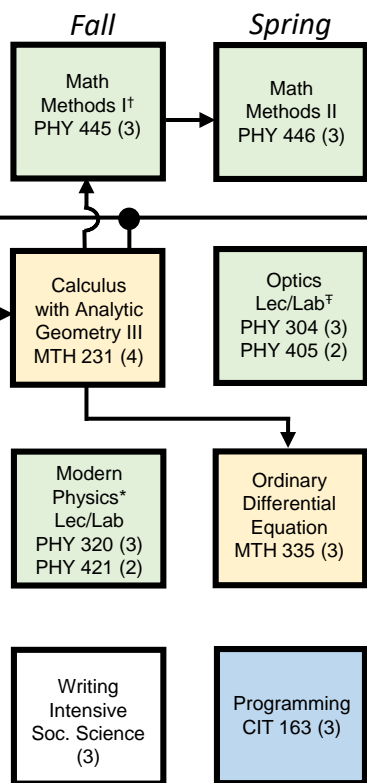


BS Physics/Minor CIT : AoE Applied Physics : Sample Curriculum (Revision 6-26-19)

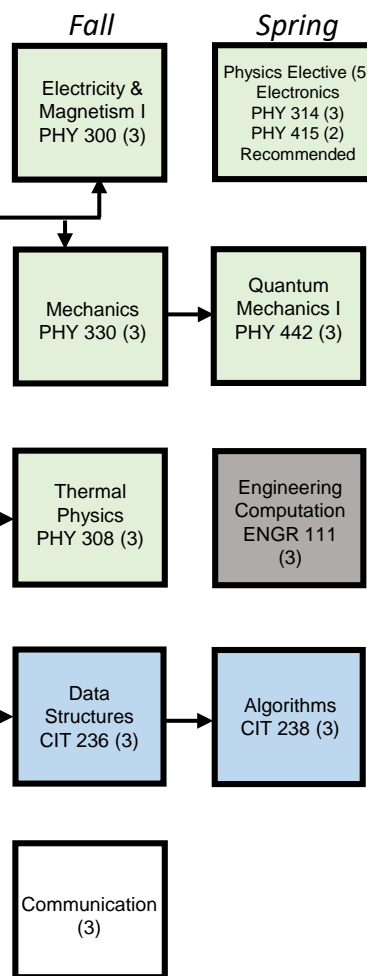
First Year



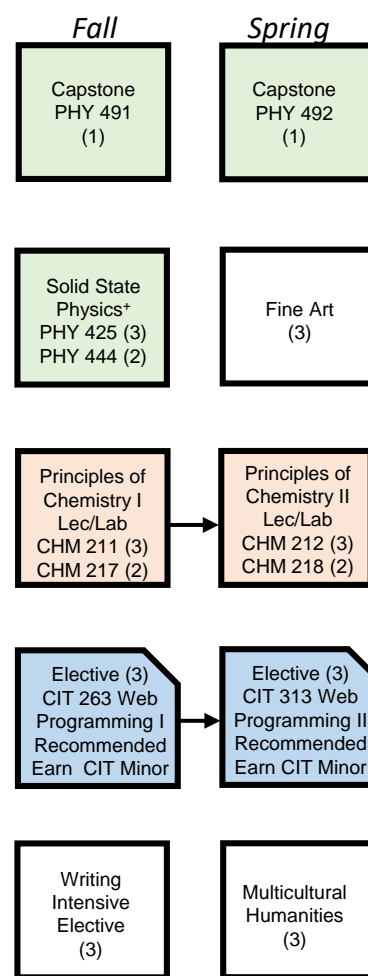
★Second Year



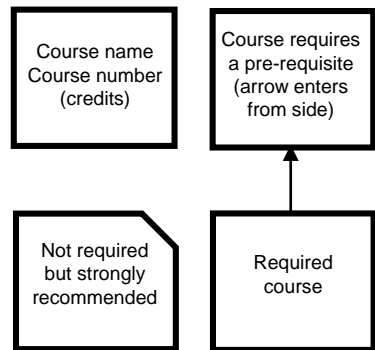
★Third Year



★Fourth Year



- ★ Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.
- ★ Let the Department Chair know if you have an interest in a particular elective course as soon as possible
- This is a sample curriculum only, the order of courses you take could be different depending on your year of entrance.
- All students must take more than 2 credits hours of capstone research



The General Education Requirements:

Core I: FYS 100 (3) 100-200 level CT (6)	Core II: ENG Composition (6) Communication (3) Math (3)
Additional Requirements: Writing Intensive (6) Multicultural or International (3)	Physical or Natural Science (4) Social Science (3) Humanities (3) Fine Arts (3)

If interested in mathematical proofs and picking up a minor in Math, take MTH 300 in addition to the above.

- *Modern Physics (PR: PHY 203 or 213 and MTH 140 or MTH 230)
- ‡ Optics (PR: PHY 203 or 213)
- † Math Methods I (PR: PHY 203 or 213 and MTH 231 or permission)
- + Solid State Physics (CR/PR: PHY 320 or 442 or CHM 442)

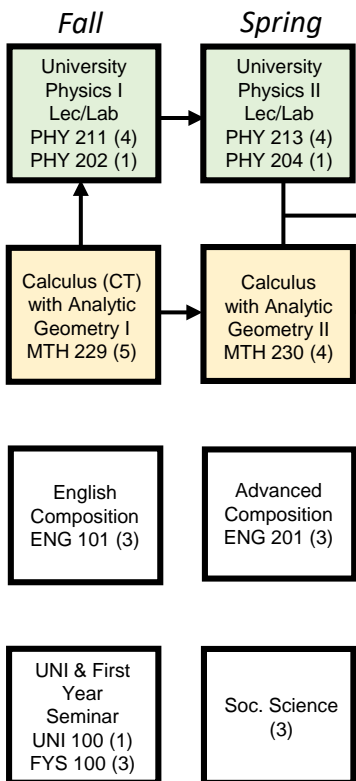
Total Hours:
122

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mcbrides@marshall.edu

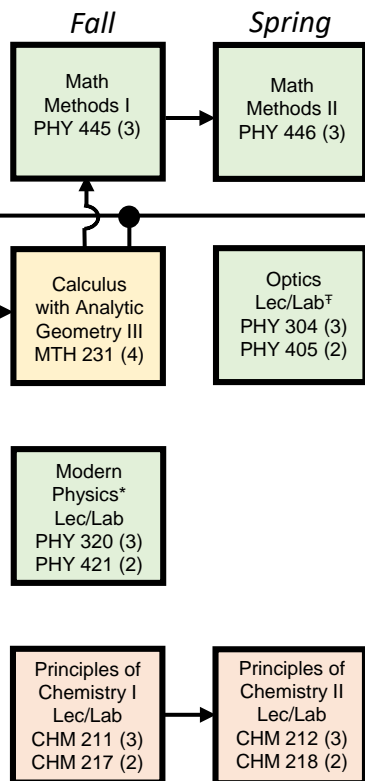


BS Physics/Minor Biology : AoE Bio Physics : Sample Curriculum (Revision 6- 26-19)

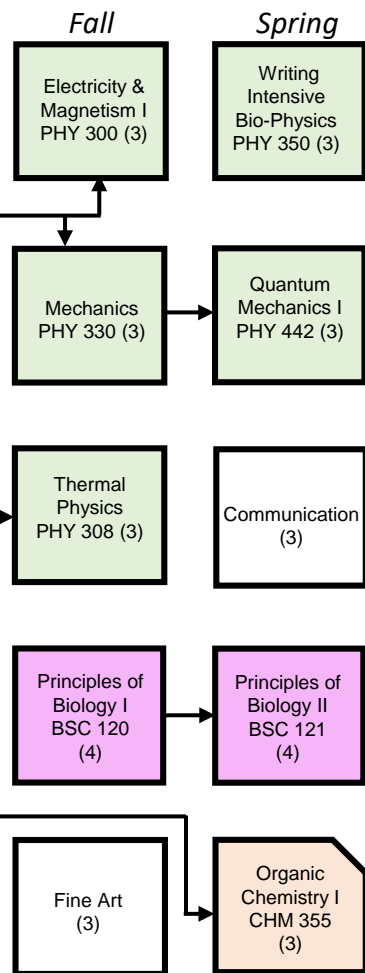
First Year



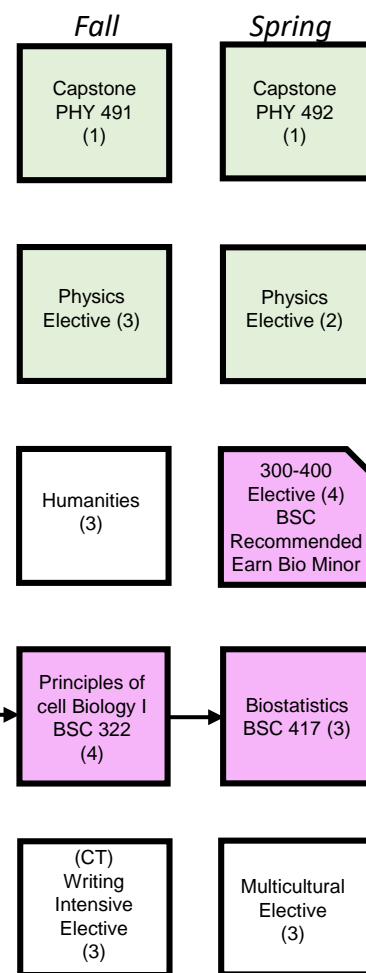
★Second Year



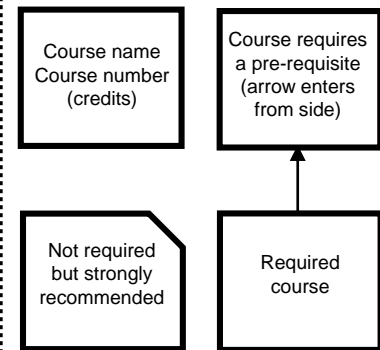
★Third Year



★Fourth Year



- ★ Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.
- ★ Let the Department Chair know if you have an interest in a particular elective course as soon as possible
- This is a sample curriculum only, the order of courses you take could be different depending on your year of entrance.
- All students must take more than 2 credits hours of capstone research



The General Education Requirements:

Core I:	Core II:
FYS 100 (3)	ENG Composition (6)
100-200 level CT (6)	Communication (3)
	Math (3)
Additional Requirements:	Physical or Natural Science (4)
Writing Intensive (6)	Social Science (3)
Multicultural or International (3)	Humanities (3)
	Fine Arts (3)

CHM 355 is strongly recommended for BSC 322. BSC 322 is required for the AoE. BSC 417 is strongly recommended for the BSC elective, this requires BSC 322 as a prerequisite. PHY 350 is strongly recommended for the Physics elective. If another 300 level chemistry class is taken as an elective a minor in chemistry can also be earned.

*Modern Physics
† Optics

(PR: PHY 203 or 213 and MTH 140 or MTH 230)
(PR: PHY 203 or 213)

Total Hours:
121

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mcbrides@marshall.edu

17 credits

15 credits

17 credits

13 credits

16 credits

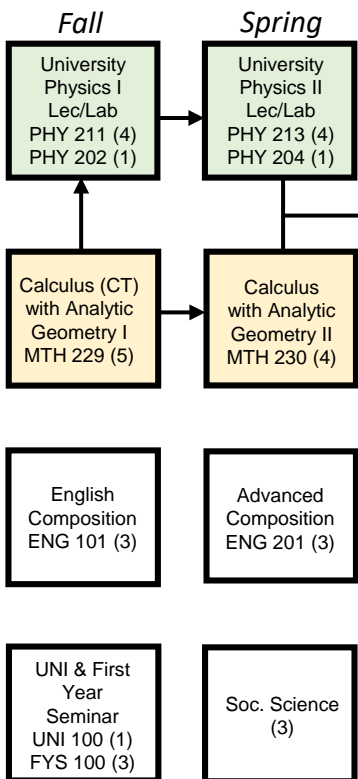
16 credits

14 credits

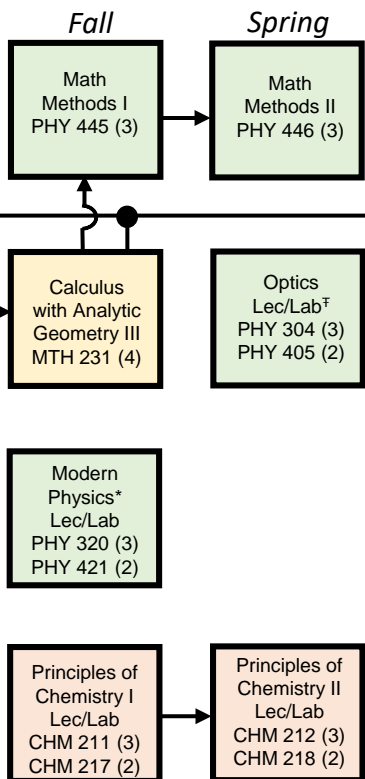
13 credits

BS Physics/Minor Chemistry : AoE Medical Physics : Sample Curriculum (Revision 6- 26-19)

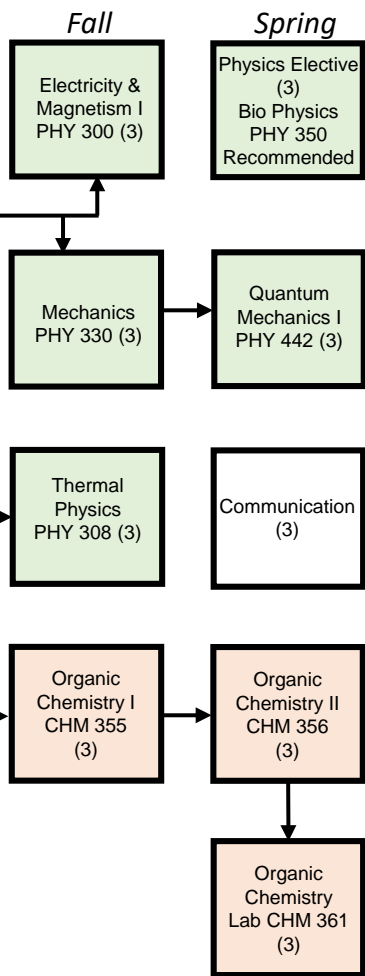
First Year



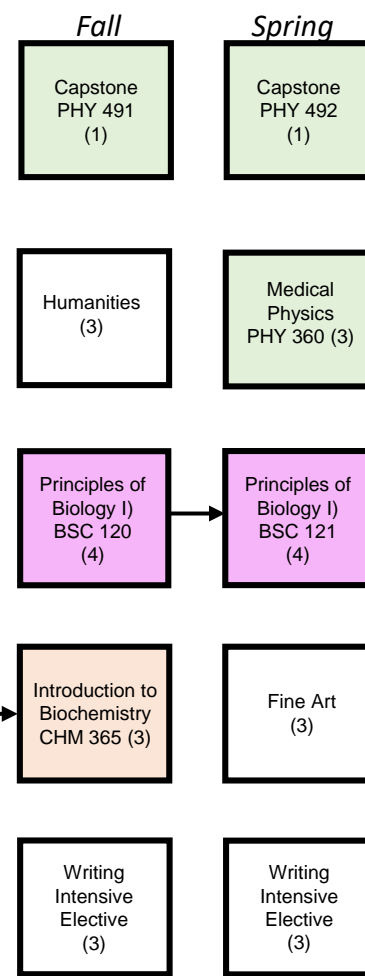
★Second Year



★Third Year



★Fourth Year

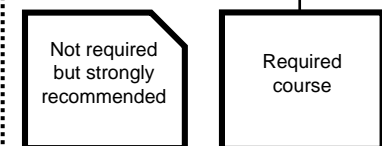
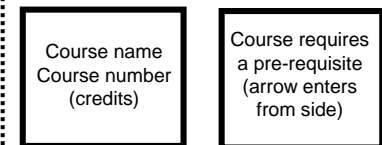


★ Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.

★ Let the Department Chair know if you have an interest in a particular elective course as soon as possible

• This is a sample curriculum only, the order of courses you take could be different depending on your year of entrance.

• All students must take more than 2 credits hours of capstone research



Total Hours:
120

If you have questions or find inconsistencies, please contact
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mcbrides@marshall.edu

The General Education Requirements:

Core I:
FYS 100 (3)
100-200 level CT (6)

Core II:
ENG Composition (6)
Communication (3)
Math (3)
Physical or Natural Science (4)
Social Science (3)
Humanities (3)
Fine Arts (3)

Additional Requirements:
Writing Intensive (6)
Multicultural or International (3)

CHM 365 has CHM 356 as a prerequisite. CHM 365 typically offered in the fall, check current version of course catalog and with your advisor.

*Modern Physics
‡ Optics

(PR: PHY 203 or 213 and MTH 140 or MTH 230)
(PR: PHY 203 or 213)

17 credits

15 credits

17 credits

16 credits

12 credits

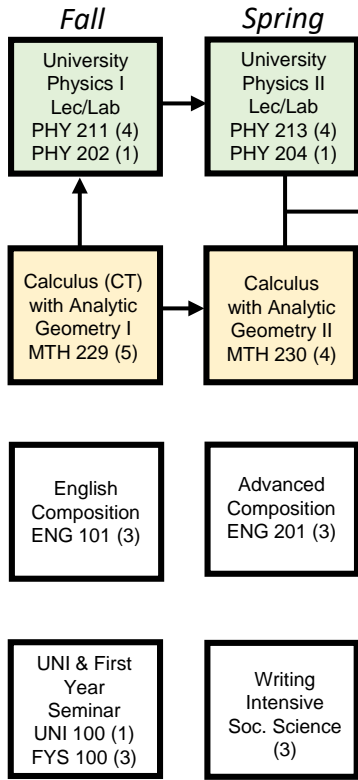
15 credits

14 credits

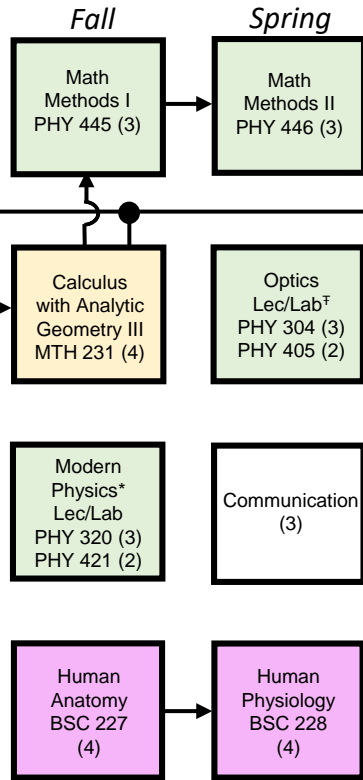
14 credits

BS Physics : AoE Medical Imaging : Sample Curriculum (Revision 6- 26-19)

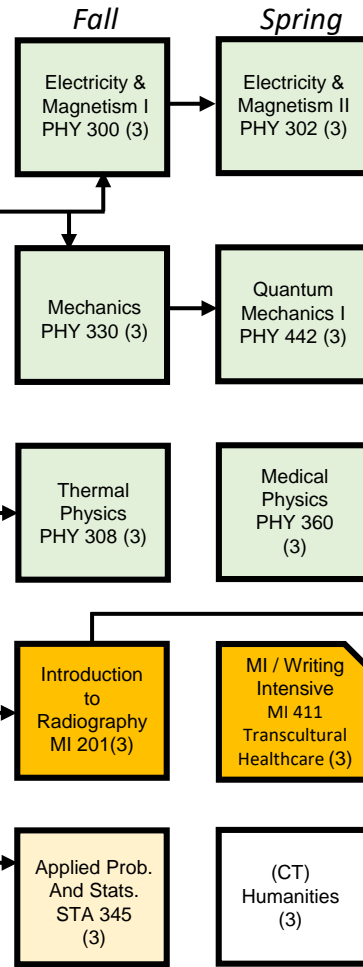
First Year



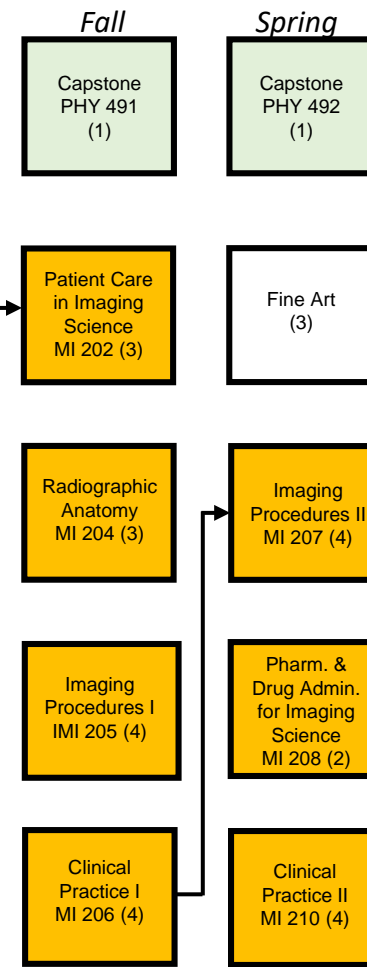
★Second Year



★Third Year



★Fourth Year



The General Education Requirements:

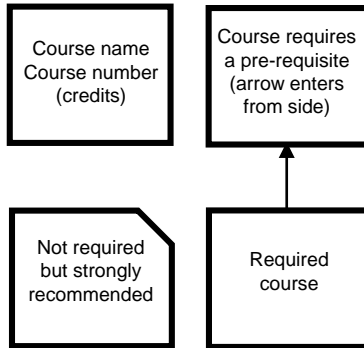
- Core I:**
- FYS 100 (3)
 - 100-200 level CT (6)
- Additional Requirements:**
- Writing Intensive (6)
 - Multicultural or International (3)
- Core II:**
- ENG Composition (6)
 - Communication (3)
 - Math (3)
 - Physical or Natural Science (4)
 - Social Science (3)
 - Humanities (3)
 - Fine Arts (3)

*Modern Physics
[‡] Optics

(PR: PHY 203 or 213 and MTH 140 or MTH 230)
 (PR: PHY 203 or 213)

MI 206 is a prerequisite for MI 207, 208, and 210. MI 201 is a prerequisite for MI 202, 204, 205, and 206. BSC 227 and MI 201 are offered in the fall, check current version of course catalog. MI 201 has BSC 227 as a prerequisite. MI 202-206 are only offered in the fall and MI 207-210 are only offered in the spring, check current version of course catalog or MI Department. **CHM 203 is no longer a prerequisite for MI 201, contact Dr. Rita Fisher.**

- ★ Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.
- ★ Let the Department Chair know if you have an interest in a particular elective course as soon as possible
- This is a sample curriculum only, the order of courses you take could be different depending on your year of entrance.
- All students must take more than 2 credits hours of capstone research



Total Hours:
122

If you have questions or find inconsistencies, please contact
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mcbrides@marshall.edu

17 credits

15 credits

16 credits

15 credits

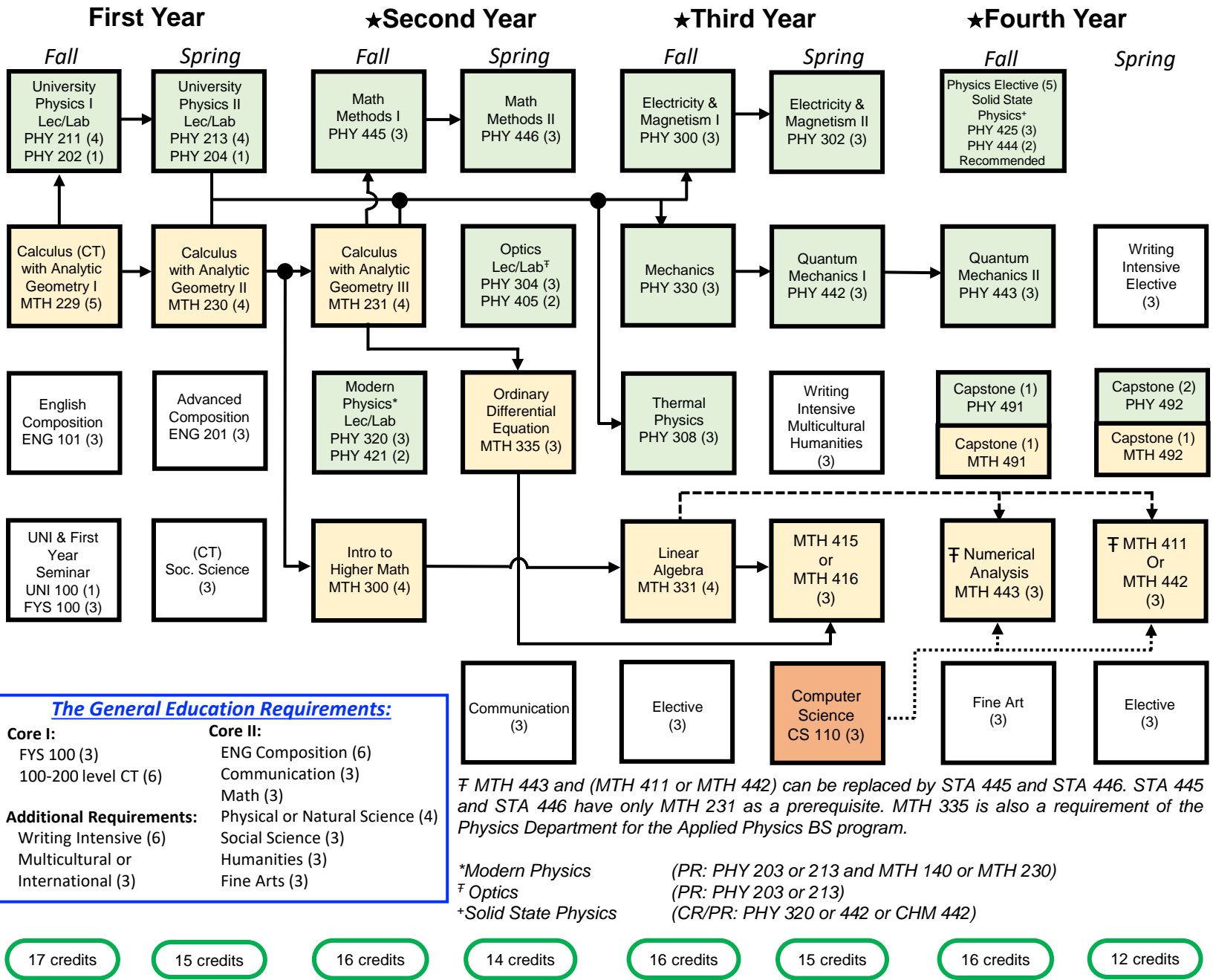
15 credits

15 credits

15 credits

14 credits

Dual Major in Physics & Applied Math : Sample Curriculum (Revision 6-26-19)



★ Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.

★ Let the Department Chair know if you have an interest in a particular elective course as soon as possible

- This is a sample curriculum only, the order of courses you take could be different depending on your year of entrance.

- All students must take more than 2 credits hours of capstone research for each major

Course name
Course number
(credits)

Course requires a pre-requisite
(arrow enters from side)

Not required but strongly recommended

Required course

[‡] MTH 443 and (MTH 411 or MTH 442) can be replaced by STA 445 and STA 446. STA 445 and STA 446 have only MTH 231 as a prerequisite. MTH 335 is also a requirement of the Physics Department for the Applied Physics BS program.

*Modern Physics (PR: PHY 203 or 213 and MTH 140 or MTH 230)
[‡] Optics (PR: PHY 203 or 213)
[†] Solid State Physics (CR/PR: PHY 320 or 442 or CHM 442)

17 credits

15 credits

16 credits

14 credits

16 credits

15 credits

16 credits

12 credits

If you have questions or find inconsistencies, please contact
 Dr. Sean P. McBride
 mcbrides@marshall.edu