

Concurrent Degree in Medical Physics and Engineering Checklist

Year 1: Admission Requirements (Minimum Grade)

NMM 1412A: Calculus I (60%)	☐	NMM 1414B: Calculus II (60%)	☐
Physics 1401A: Physics I (60%)	☐	Physics 1402B: Physics II (60%)	☐
NMM 1411A/B: Lin. Algebra (55%)	☐	Chemistry 1302A/B: Chem I (50%)	☐

NMM Math Courses – The Following 1.0 Credits Count to Both Degrees

NMM 2270A: App. Math. for Engineering II [<i>Fall – MWF – 8:30AM -9:30 AM</i>]	☐
NMM 2276B or 2277B: App. Math. for Eng. III [<i>Winter – MWF – 8:30AM – 9:30AM</i>]	☐

Remaining Module: 5.0 Physics Credits

Each of the following courses (2.5 total credits)

Physics 2101A: Intermediate Physics [<i>Fall – MWF 10:30AM -11:30 AM</i>]	☐
Physics 2104B: Intro to Quantum Mechanics [<i>Winter – MWF 10:30AM -11:30 AM</i>]	☐
Physics 2110A: Oscillations and Waves [<i>Fall – MWF 9:30AM -10:30 AM</i>]	☐
Physics 2910G: Intro to Physical Measurement [<i>Winter – MTW 9:30AM -10:30 AM</i>]	☐
Physics 3926F: Computer Simulations in Physics [<i>Fall – W – 2:30 PM – 4:30PM</i>]	☐

Each of the following courses or any Medical Biophysics course #3000 or above. (1.0 total credits),

Physics 4662A: Magnetic Resonance Imaging [<i>Fall – MWF 1:30PM -2:30PM</i>]	☐
Physics 4672B: Radiological Physics [<i>Winter - Tu 1:30PM-2:30PM, Fr 1:30PM-2:30PM</i>]	☐

Two of the following courses (1.0 total credits)

Physics 3151A: Classical Mechanics [<i>Fall – MWF 11:30AM -12:30 PM</i>]	☐
Physics 3200B: Quantum Mechanics I [<i>Winter – Tu 12:30PM -1:30 PM, Th 11:30AM – 1:30PM</i>]	☐
Physics 3300A: Electromagnetic Theory I [<i>Fall – Tu 10:30AM -12:30 PM, Th 11:30AM – 12:30PM</i>]	☐
Physics 3400B: Introduction to Thermal Physics [<i>Winter – MWF 9:30AM – 10:30AM</i>]	☐

One 0.5 credit from any Physics or Astronomy course not yet taken numbered 2100 or above, including any of the above listed courses not already counted towards the major (0.5 total credits)

Additional Course 1: _____ ☐

**Note: must also complete two non-credit seminar courses [Meetings Thurs 3:30pm-4:30pm]*

Physics 2950Y: Year Two Seminar ☐ **Physics 3950Y:** Year Three Seminar ☐

***The above degree is only valid if an Engineering program at Western is completed concurrently*

****Total 1.0 Category B Arts and Humanities credits are required for the degree*