

Howard University
Department of Physics and Astronomy
Spring 2022

Course Name: PHYS 001-01 General Physics I (Laboratory)

Course Type: Hybrid

Location: Room 305

Time: Tuesday 10:10AM-12:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Mohammed Doumbia |
| Email | modiat01@gmail.com |
| Office Hours | Room 203, TBA |

| | |
|----------------|--|
| Lab Instructor | Gadeer Alqaserri |
| Email | gadeer.alqaserri@bison.howard.edu |
| Office Hours | 4th Floor Offices, M 12:10PM-2:10PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|---------------------------|-----------------------------|
| January 18, 2022 | Introduction | N/A |
| January 25, 2022 | Measurements/ Force Table | February 1, 2022 – 10:10AM |
| February 1, 2022 | Rectilinear Motion | February 8, 2022 – 10:10AM |
| February 8, 2022 | Atwood's Machine | February 15, 2022 – 10:10AM |
| February 15, 2022 | Ballistic Pendulum | February 22, 2022 – 10:10AM |
| February 22, 2022 | Rotation and Torque | March 1, 2022 – 10:10AM |
| March 1, 2022 | Exam #1 | N/A |
| March 8, 2022 | Spring Break | |
| March 15, 2022 | Simple Harmonic Motion | March 22, 2022 – 10:10AM |
| March 22, 2022 | Archimedes Principle | March 29, 2022 – 10:10AM |
| March 29, 2022 | Specific Heat of Solids | April 5, 2022 – 10:10AM |
| April 5, 2022 | Thermals Expansion | April 12, 2022 – 10:10AM |
| April 12, 2022 | Resonance in Air Columns | April 19, 2022 – 10:10AM |
| April 19, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 001-02 General Physics I (Laboratory)

Course Type: Hybrid

Location: Room 305

Time: Thursday 10:10AM-12:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Mohammed Doumbia |
| Email | modiat01@gmail.com |
| Office Hours | Room 203, TBA |

| | |
|----------------|--|
| Lab Instructor | Gadeer Alqaserri |
| Email | gadeer.alqaserri@bison.howard.edu |
| Office Hours | 4th Floor Offices, M 12:10PM-2:10PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|---------------------------|-----------------------------|
| January 20, 2022 | Introduction | N/A |
| January 27, 2022 | Measurements/ Force Table | February 3, 2022 – 10:10AM |
| February 3, 2022 | Rectilinear Motion | February 10, 2022 – 10:10AM |
| February 10, 2022 | Atwood's Machine | February 17, 2022 – 10:10AM |
| February 17, 2022 | Ballistic Pendulum | February 24, 2022 – 10:10AM |
| February 24, 2022 | Rotation and Torque | March 3, 2022 – 10:10AM |
| March 3, 2022 | Exam #1 | N/A |
| March 10, 2022 | Spring Break | |
| March 17, 2022 | Simple Harmonic Motion | March 24, 2022 – 10:10AM |
| March 24, 2022 | Archimedes Principle | March 31, 2022 – 10:10AM |
| March 31, 2022 | Specific Heat of Solids | April 7, 2022 – 10:10AM |
| April 7, 2022 | Thermals Expansion | April 14, 2022 – 10:10AM |
| April 14, 2022 | Resonance in Air Columns | April 21, 2022 – 10:10AM |
| April 21, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 001-03 General Physics I (Laboratory)

Course Type: Online

Location: N/A

Time: Thursday 1:10PM-3:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Mohammed Doumbia |
| Email | modiat01@gmail.com |
| Office Hours | Room 203, TBA |

| | |
|----------------|--|
| Lab Instructor | Millicent Cosmas |
| Email | millicentcosm@gmail.com |
| Office Hours | 4th Floor Offices, TR 12PM-1PM |

This lab section is entirely online, refer to the Online Introduction in the link below

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Week # | Week Starts | Week Ends | Laboratory Name | Due Date |
|---------|-------------------|-------------------|---------------------------|-------------------------|
| Week 1 | January 17, 2022 | January 21, 2022 | Introduction | N/A |
| Week 2 | January 24, 2022 | January 28, 2022 | Measurements/ Force Table | February 3, 2022 – 3PM |
| Week 3 | January 31, 2022 | February 4, 2022 | Rectilinear Motion | February 10, 2022 – 3PM |
| Week 4 | February 7, 2022 | February 11, 2022 | Atwood's Machine | February 17, 2022 – 3PM |
| Week 5 | February 14, 2022 | February 18, 2022 | Ballistic Pendulum | February 24, 2022 – 3PM |
| Week 6 | February 21, 2022 | February 25, 2022 | Rotation and Torque | March 3, 2022 – 3PM |
| Week 7 | February 28, 2022 | March 4, 2022 | Exam #1 | March 4, 2022 – 3PM |
| Week 8 | March 7, 2022 | March 11, 2022 | Spring Break | |
| Week 9 | March 14, 2022 | March 18, 2022 | Simple Harmonic Motion | March 24, 2022 – 3PM |
| Week 10 | March 21, 2022 | March 25, 2022 | Archimedes Principle | March 31, 2022 – 3PM |
| Week 11 | March 28, 2022 | April 1, 2022 | Specific Heat of Solids | April 7, 2022 – 3PM |
| Week 12 | April 4, 2022 | April 8, 2022 | Thermals Expansion | April 14, 2022 – 3PM |
| Week 13 | April 11, 2022 | April 15, 2022 | Resonance in Air Columns | April 21, 2022 – 3PM |
| Week 14 | April 18, 2022 | April 22, 2022 | Exam #2 | April 22, 2022 – 3PM |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 002-01 General Physics II (Laboratory)

Course Type: Hybrid

Location: Room 304

Time: Thursday 6:10PM-8:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Sidi Maiga |
| Email | sidi.maiga@howard.edu |
| Office Hours | Room 203, MW 5PM-6PM |

| | |
|----------------|--|
| Lab Instructor | Trey Jean-Baptiste |
| Email | treyjean127@gmail.com |
| Office Hours | 4th Floor Offices, TR 3PM-4PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|-------------------------|----------------------------|
| January 20, 2022 | Introduction | N/A |
| January 27, 2022 | Electric Field | February 3, 2022 – 6:10PM |
| February 3, 2022 | Wheatstone Bridge | February 10, 2022 – 6:10PM |
| February 10, 2022 | Ohm's Law | February 17, 2022 – 6:10PM |
| February 17, 2022 | RC Circuits | February 24, 2022 – 6:10PM |
| February 24, 2022 | External Magnetic Field | March 3, 2022 – 6:10PM |
| March 3, 2022 | Exam #1 | N/A |
| March 10, 2022 | Spring Break | |
| March 17, 2022 | Oscilloscope | March 24, 2022 – 6:10PM |
| March 24, 2022 | Ray Tracing/Refraction | March 31, 2022 – 6:10PM |
| March 31, 2022 | Focal Length of Lenses | April 7, 2022 – 6:10PM |
| April 7, 2022 | Diffraction | April 14, 2022 – 6:10PM |
| April 14, 2022 | Atomic Spectra | April 21, 2022 – 6:10PM |
| April 21, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 002-02 General Physics II (Laboratory)

Course Type: Hybrid

Location: Room 304

Time: Tuesday 6:10PM-8:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Sidi Maiga |
| Email | sidi.maiga@howard.edu |
| Office Hours | Room 203, MW 5PM-6PM |

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|----------------|--|
| Lab Instructor | Dr. Raul Garcia-Sanchez |
| Email | rsanchez@howard.edu |
| Office Hours | Room 101, MW 1PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|-------------------------|----------------------------|
| January 18, 2022 | Introduction | N/A |
| January 25, 2022 | Electric Field | February 1, 2022 – 6:10PM |
| February 1, 2022 | Wheatstone Bridge | February 8, 2022 – 6:10PM |
| February 8, 2022 | Ohm's Law | February 15, 2022 – 6:10PM |
| February 15, 2022 | RC Circuits | February 22, 2022 – 6:10PM |
| February 22, 2022 | External Magnetic Field | March 1, 2022 – 6:10PM |
| March 1, 2022 | Exam #1 | N/A |
| March 8, 2022 | Spring Break | |
| March 15, 2022 | Oscilloscope | March 22, 2022 – 6:10PM |
| March 22, 2022 | Ray Tracing/Refraction | March 29, 2022 – 6:10PM |
| March 29, 2022 | Focal Length of Lenses | April 5, 2022 – 6:10PM |
| April 5, 2022 | Diffraction | April 12, 2022 – 6:10PM |
| April 12, 2022 | Atomic Spectra | April 19, 2022 – 6:10PM |
| April 19, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 002-03 General Physics II (Laboratory)

Course Type: Hybrid

Location: Room 304

Time: Thursday 10:10AM-12:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Daniel Casimir |
| Email | Casimir.daniel@gmail.com |
| Office Hours | Room 202, MW 12PM-1PM |

| | |
|----------------|--|
| Lab Instructor | Aaron Conard |
| Email | aaron.conard@bison.howard.edu |
| Office Hours | 4th Floor Offices, TR 1PM-2PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|-------------------------|-----------------------------|
| January 20, 2022 | Introduction | N/A |
| January 27, 2022 | Electric Field | February 3, 2022 – 10:10AM |
| February 3, 2022 | Wheatstone Bridge | February 10, 2022 – 10:10AM |
| February 10, 2022 | Ohm's Law | February 17, 2022 – 10:10AM |
| February 17, 2022 | RC Circuits | February 24, 2022 – 10:10AM |
| February 24, 2022 | External Magnetic Field | March 3, 2022 – 10:10AM |
| March 3, 2022 | Exam #1 | N/A |
| March 10, 2022 | Spring Break | |
| March 17, 2022 | Oscilloscope | March 24, 2022 – 10:10AM |
| March 24, 2022 | Ray Tracing/Refraction | March 31, 2022 – 10:10AM |
| March 31, 2022 | Focal Length of Lenses | April 7, 2022 – 10:10AM |
| April 7, 2022 | Diffraction | April 14, 2022 – 10:10AM |
| April 14, 2022 | Atomic Spectra | April 21, 2022 – 10:10AM |
| April 21, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 002-04 General Physics II (Laboratory)

Course Type: Online

Location: N/A

Time: Thursday 1:10PM-3:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Daniel Casimir |
| Email | Casimir.daniel@gmail.com |
| Office Hours | Room 202, MW 12PM-1PM |

| | |
|----------------|--|
| Lab Instructor | Aaron Conard |
| Email | aaron.conard@bison.howard.edu |
| Office Hours | 4th Floor Offices, TR 1PM-2PM |

This lab section is entirely online, refer to the Online Introduction in the link below

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Week # | Week Starts | Week Ends | Laboratory Name | Due Date |
|---------|-------------------|-------------------|-------------------------|-------------------------|
| Week 1 | January 17, 2022 | January 21, 2022 | Introduction | N/A |
| Week 2 | January 24, 2022 | January 28, 2022 | Electric Field | February 3, 2022 – 3PM |
| Week 3 | January 31, 2022 | February 4, 2022 | Wheatstone Bridge | February 10, 2022 – 3PM |
| Week 4 | February 7, 2022 | February 11, 2022 | Ohm's Law | February 17, 2022 – 3PM |
| Week 5 | February 14, 2022 | February 18, 2022 | RC Circuits | February 24, 2022 – 3PM |
| Week 6 | February 21, 2022 | February 25, 2022 | External Magnetic Field | March 3, 2022 – 3PM |
| Week 7 | February 28, 2022 | March 4, 2022 | Exam #1 | March 4, 2022 – 3PM |
| Week 8 | March 7, 2022 | March 11, 2022 | Spring Break | |
| Week 9 | March 14, 2022 | March 18, 2022 | Oscilloscope | March 24, 2022 – 3PM |
| Week 10 | March 21, 2022 | March 25, 2022 | Ray Tracing/Refraction | March 31, 2022 – 3PM |
| Week 11 | March 28, 2022 | April 1, 2022 | Focal Length of Lenses | April 7, 2022 – 3PM |
| Week 12 | April 4, 2022 | April 8, 2022 | Diffraction | April 14, 2022 – 3PM |
| Week 13 | April 11, 2022 | April 15, 2022 | Atomic Spectra | April 21, 2022 – 3PM |
| Week 14 | April 18, 2022 | April 22, 2022 | Exam #2 | April 22, 2022 – 3PM |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 002-05 General Physics II (Laboratory)

Course Type: Hybrid

Location: Room 304

Time: Tuesday 1:10PM-3:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Daniel Casimir |
| Email | Casimir.daniel@gmail.com |
| Office Hours | Room 202, MW 12PM-1PM |

| | |
|----------------|--|
| Lab Instructor | Courtney McIntosh |
| Email | courtney.mcintosh@bison.howard.edu |
| Office Hours | Room 406, TR 12PM-1PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|-------------------------|----------------------------|
| January 18, 2022 | Introduction | N/A |
| January 25, 2022 | Electric Field | February 1, 2022 – 1:10PM |
| February 1, 2022 | Wheatstone Bridge | February 8, 2022 – 1:10PM |
| February 8, 2022 | Ohm's Law | February 15, 2022 – 1:10PM |
| February 15, 2022 | RC Circuits | February 22, 2022 – 1:10PM |
| February 22, 2022 | External Magnetic Field | March 1, 2022 – 1:10PM |
| March 1, 2022 | Exam #1 | N/A |
| March 8, 2022 | Spring Break | |
| March 15, 2022 | Oscilloscope | March 22, 2022 – 1:10PM |
| March 22, 2022 | Ray Tracing/Refraction | March 29, 2022 – 1:10PM |
| March 29, 2022 | Focal Length of Lenses | April 5, 2022 – 1:10PM |
| April 5, 2022 | Diffraction | April 12, 2022 – 1:10PM |
| April 12, 2022 | Atomic Spectra | April 19, 2022 – 1:10PM |
| April 19, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 002-06 General Physics II (Laboratory)

Course Type: Hybrid

Location: Room 304

Time: Thursday 1:10PM-3:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Daniel Casimir |
| Email | Casimir.daniel@gmail.com |
| Office Hours | Room 202, MW 12PM-1PM |

| | |
|----------------|--|
| Lab Instructor | Courtney McIntosh |
| Email | courtney.mcintosh@bison.howard.edu |
| Office Hours | Room 406, TR 12PM-1PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|-------------------------|----------------------------|
| January 20, 2022 | Introduction | N/A |
| January 27, 2022 | Electric Field | February 3, 2022 – 1:10PM |
| February 3, 2022 | Wheatstone Bridge | February 10, 2022 – 1:10PM |
| February 10, 2022 | Ohm's Law | February 17, 2022 – 1:10PM |
| February 17, 2022 | RC Circuits | February 24, 2022 – 1:10PM |
| February 24, 2022 | External Magnetic Field | March 3, 2022 – 1:10PM |
| March 3, 2022 | Exam #1 | N/A |
| March 10, 2022 | Spring Break | |
| March 17, 2022 | Oscilloscope | March 24, 2022 – 1:10PM |
| March 24, 2022 | Ray Tracing/Refraction | March 31, 2022 – 1:10PM |
| March 31, 2022 | Focal Length of Lenses | April 7, 2022 – 1:10PM |
| April 7, 2022 | Diffraction | April 14, 2022 – 1:10PM |
| April 14, 2022 | Atomic Spectra | April 21, 2022 – 1:10PM |
| April 21, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 002-07 General Physics II (Laboratory)

Course Type: Hybrid

Location: Room 304

Time: Tuesday 3:10PM-5:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Sidi Maiga |
| Email | sidi.maiga@howard.edu |
| Office Hours | Room 203, MW 5PM-6PM |

| | |
|----------------|--|
| Lab Instructor | Emmanuel Yakubu |
| Email | emmanuel.yakubu@bison.howard.edu |
| Office Hours | 4th Floor Offices, TR 2PM-3PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|-------------------------|----------------------------|
| January 18, 2022 | Introduction | N/A |
| January 25, 2022 | Electric Field | February 1, 2022 – 3:10PM |
| February 1, 2022 | Wheatstone Bridge | February 8, 2022 – 3:10PM |
| February 8, 2022 | Ohm's Law | February 15, 2022 – 3:10PM |
| February 15, 2022 | RC Circuits | February 22, 2022 – 3:10PM |
| February 22, 2022 | External Magnetic Field | March 1, 2022 – 3:10PM |
| March 1, 2022 | Exam #1 | N/A |
| March 8, 2022 | Spring Break | |
| March 15, 2022 | Oscilloscope | March 22, 2022 – 3:10PM |
| March 22, 2022 | Ray Tracing/Refraction | March 29, 2022 – 3:10PM |
| March 29, 2022 | Focal Length of Lenses | April 5, 2022 – 3:10PM |
| April 5, 2022 | Diffraction | April 12, 2022 – 3:10PM |
| April 12, 2022 | Atomic Spectra | April 19, 2022 – 3:10PM |
| April 19, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 002-08 General Physics II (Laboratory)

Course Type: Hybrid

Location: Room 304

Time: Thursday 3:10PM-5:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Sidi Maiga |
| Email | sidi.maiga@howard.edu |
| Office Hours | Room 203, MW 5PM-6PM |

| | |
|----------------|--|
| Lab Instructor | Emmanuel Yakubu |
| Email | emmanuel.yakubu@bison.howard.edu |
| Office Hours | 4th Floor Offices, TR 2PM-3PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|-------------------------|----------------------------|
| January 20, 2022 | Introduction | N/A |
| January 27, 2022 | Electric Field | February 3, 2022 – 3:10PM |
| February 3, 2022 | Wheatstone Bridge | February 10, 2022 – 3:10PM |
| February 10, 2022 | Ohm's Law | February 17, 2022 – 3:10PM |
| February 17, 2022 | RC Circuits | February 24, 2022 – 3:10PM |
| February 24, 2022 | External Magnetic Field | March 3, 2022 – 3:10PM |
| March 3, 2022 | Exam #1 | N/A |
| March 10, 2022 | Spring Break | |
| March 17, 2022 | Oscilloscope | March 24, 2022 – 3:10PM |
| March 24, 2022 | Ray Tracing/Refraction | March 31, 2022 – 3:10PM |
| March 31, 2022 | Focal Length of Lenses | April 7, 2022 – 3:10PM |
| April 7, 2022 | Diffraction | April 14, 2022 – 3:10PM |
| April 14, 2022 | Atomic Spectra | April 21, 2022 – 3:10PM |
| April 21, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 023-01 Physics for Sci and Eng I (Laboratory)

Course Type: Hybrid

Location: Room 305

Time: Tuesday 1:10PM-3:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Sidi Maiga |
| Email | sidi.maiga@howard.edu |
| Office Hours | Room 203, MW 5PM-6PM |

| | |
|----------------|--|
| Lab Instructor | Millicent Cosmas |
| Email | millicentcosm@gmail.com |
| Office Hours | 4th Floor Offices, TR 12PM-1PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|---------------------------|----------------------------|
| January 18, 2022 | Introduction | N/A |
| January 25, 2022 | Measurements/ Force Table | February 1, 2022 – 1:10PM |
| February 1, 2022 | Rectilinear Motion | February 8, 2022 – 1:10PM |
| February 8, 2022 | Atwood's Machine | February 15, 2022 – 1:10PM |
| February 15, 2022 | Ballistic Pendulum | February 22, 2022 – 1:10PM |
| February 22, 2022 | Rotation and Torque | March 1, 2022 – 1:10PM |
| March 1, 2022 | Exam #1 | N/A |
| March 8, 2022 | Spring Break | |
| March 15, 2022 | Simple Harmonic Motion | March 22, 2022 – 1:10PM |
| March 22, 2022 | Archimedes Principle | March 29, 2022 – 1:10PM |
| March 29, 2022 | Specific Heat of Solids | April 5, 2022 – 1:10PM |
| April 5, 2022 | Thermals Expansion | April 12, 2022 – 1:10PM |
| April 12, 2022 | Resonance in Air Columns | April 19, 2022 – 1:10PM |
| April 19, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 023-02 Physics for Sci and Eng I (Laboratory)

Course Type: Online

Location: N/A

Time: Thursday 3:10PM-5:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Sidi Maiga |
| Email | sidi.maiga@howard.edu |
| Office Hours | Room 203, MW 5PM-6PM |

| | |
|----------------|--|
| Lab Instructor | Trey Jean-Baptiste |
| Email | treyjean127@gmail.com |
| Office Hours | 4th Floor Offices, TR 3PM-4PM |

This lab section is entirely online, refer to the Online Introduction in the link below

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Week # | Week Starts | Week Ends | Laboratory Name | Due Date |
|---------|-------------------|-------------------|---------------------------|-------------------------|
| Week 1 | January 17, 2022 | January 21, 2022 | Introduction | N/A |
| Week 2 | January 24, 2022 | January 28, 2022 | Measurements/ Force Table | February 3, 2022 – 5PM |
| Week 3 | January 31, 2022 | February 4, 2022 | Rectilinear Motion | February 10, 2022 – 5PM |
| Week 4 | February 7, 2022 | February 11, 2022 | Atwood's Machine | February 17, 2022 – 5PM |
| Week 5 | February 14, 2022 | February 18, 2022 | Ballistic Pendulum | February 24, 2022 – 5PM |
| Week 6 | February 21, 2022 | February 25, 2022 | Rotation and Torque | March 3, 2022 – 5PM |
| Week 7 | February 28, 2022 | March 4, 2022 | Exam #1 | March 4, 2022 – 5PM |
| Week 8 | March 7, 2022 | March 11, 2022 | Spring Break | |
| Week 9 | March 14, 2022 | March 18, 2022 | Simple Harmonic Motion | March 24, 2022 – 5PM |
| Week 10 | March 21, 2022 | March 25, 2022 | Archimedes Principle | March 31, 2022 – 5PM |
| Week 11 | March 28, 2022 | April 1, 2022 | Specific Heat of Solids | April 7, 2022 – 5PM |
| Week 12 | April 4, 2022 | April 8, 2022 | Thermals Expansion | April 14, 2022 – 5PM |
| Week 13 | April 11, 2022 | April 15, 2022 | Resonance in Air Columns | April 21, 2022 – 5PM |
| Week 14 | April 18, 2022 | April 22, 2022 | Exam #2 | April 22, 2022 – 5PM |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 024-01 Physics for Sci and Eng II (Laboratory)

Course Type: Hybrid

Location: Room 304

Time: Wednesday 1:10PM-3:00PM

| | |
|-------------------|--|
| Course Instructor | Dr. Sidi Maiga |
| Email | sidi.maiga@howard.edu |
| Office Hours | Room 203, MW 5PM-6PM |

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|----------------|--|
| Lab Instructor | Yahya Alqahtani |
| Email | yahya.alqahtani@bison.howard.edu |
| Office Hours | 4th Floor Offices, T 12-1PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|-------------------------|----------------------------|
| January 19, 2022 | Introduction | N/A |
| January 26, 2022 | Electric Field | February 2, 2022 – 1:10PM |
| February 2, 2022 | Wheatstone Bridge | February 9, 2022 – 1:10PM |
| February 9, 2022 | Ohm's Law | February 16, 2022 – 1:10PM |
| February 16, 2022 | RC Circuits | February 23, 2022 – 1:10PM |
| February 23, 2022 | External Magnetic Field | March 2, 2022 – 1:10PM |
| March 2, 2022 | Exam #1 | N/A |
| March 9, 2022 | Spring Break | |
| March 16, 2022 | Oscilloscope | March 23, 2022 – 1:10PM |
| March 23, 2022 | Ray Tracing/Refraction | March 30, 2022 – 1:10PM |
| March 30, 2022 | Focal Length of Lenses | April 6, 2022 – 1:10PM |
| April 6, 2022 | Diffraction | April 13, 2022 – 1:10PM |
| April 13, 2022 | Atomic Spectra | April 20, 2022 – 1:10PM |
| April 20, 2022 | Exam #2 | N/A |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 024-02 Physics for Sci and Eng II (Laboratory)

Course Type: Online

Location: N/A

Time: Friday 1:10PM-3:00PM

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|-------------------|--|
| Course Instructor | Dr. Sidi Maiga |
| Email | sidi.maiga@howard.edu |
| Office Hours | Room 203, MW 5PM-6PM |

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| Lab Instructor | Dr. Raul Garcia-Sanchez |
| Email | rsanchez@howard.edu |
| Office Hours | Room 101, MW 1PM |

This lab section is entirely online, refer to the Online Introduction in the link below

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Week # | Week Starts | Week Ends | Laboratory Name | Due Date |
|---------|-------------------|-------------------|-------------------------|-------------------------|
| Week 1 | January 17, 2022 | January 21, 2022 | Introduction | N/A |
| Week 2 | January 24, 2022 | January 28, 2022 | Electric Field | February 4, 2022 – 3PM |
| Week 3 | January 31, 2022 | February 4, 2022 | Wheatstone Bridge | February 11, 2022 – 3PM |
| Week 4 | February 7, 2022 | February 11, 2022 | Ohm's Law | February 18, 2022 – 3PM |
| Week 5 | February 14, 2022 | February 18, 2022 | RC Circuits | February 25, 2022 – 3PM |
| Week 6 | February 21, 2022 | February 25, 2022 | External Magnetic Field | March 4, 2022 – 3PM |
| Week 7 | February 28, 2022 | March 4, 2022 | Exam #1 | March 4, 2022 – 3PM |
| Week 8 | March 7, 2022 | March 11, 2022 | Spring Break | |
| Week 9 | March 14, 2022 | March 18, 2022 | Oscilloscope | March 25, 2022 – 3PM |
| Week 10 | March 21, 2022 | March 25, 2022 | Ray Tracing/Refraction | April 1, 2022 – 3PM |
| Week 11 | March 28, 2022 | April 1, 2022 | Focal Length of Lenses | April 8, 2022 – 3PM |
| Week 12 | April 4, 2022 | April 8, 2022 | Diffraction | April 15, 2022 – 3PM |
| Week 13 | April 11, 2022 | April 15, 2022 | Atomic Spectra | April 22, 2022 – 3PM |
| Week 14 | April 18, 2022 | April 22, 2022 | Exam #2 | April 22, 2022 – 3PM |

Howard University
Department of Physics and Astronomy
Spring 2022

Course: PHYS 007-01 Physics for Allied Health (Laboratory)

Course Type: Hybrid

Location: Room 207

Time: Thursday 10:10AM-12:00PM

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|-------------------|--|
| Course Instructor | Dr. Daniel Casimir |
| Email | Casimir.daniel@gmail.com |
| Office Hours | Room 202, MW 12PM-1PM |

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| Lab Instructor | Yahya Alqahtani |
| Email | yahya.alqahtani@bison.howard.edu |
| Office Hours | 4th Floor Offices, T 12-1PM |

To allow proper distancing, the number of students in the Lab room will be limited to 15: the first 15 students to arrive at the lab session will be admitted, the rest of the students will take it online.

Lab Experiments: <https://physics.howard.edu/undergraduate/general-physics-lab-experiments>

Schedule (subject to change)

| Date | Laboratory Name | Due Date |
|-------------------|------------------------|-----------------------------|
| January 20, 2022 | Introduction | N/A |
| January 27, 2022 | Force Table | February 3, 2022 – 10:10AM |
| February 3, 2022 | Rectilinear Motion | February 10, 2022 – 10:10AM |
| February 10, 2022 | Atwood Machine | February 17, 2022 – 10:10AM |
| February 17, 2022 | Archimedes' Principle | February 24, 2022 – 10:10AM |
| February 24, 2022 | Thermal Expansion | March 3, 2022 – 10:10AM |
| March 3, 2022 | Exam #1 | N/A |
| March 10, 2022 | Spring Break | |
| March 17, 2022 | Electric Field | March 24, 2022 – 10:10AM |
| March 24, 2022 | Ohm's Law | March 31, 2022 – 10:10AM |
| March 31, 2022 | Ray Tracing | April 7, 2022 – 10:10AM |
| April 7, 2022 | Focal Length of Lenses | April 14, 2022 – 10:10AM |
| April 14, 2022 | Refraction | April 21, 2022 – 10:10AM |
| April 21, 2022 | Exam #2 | N/A |