

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 305, Tuesday 3:10-5:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Stacyann Nelson
Email	stacyann.nelson@howard.edu
Office Hours	Room 201

Lab Instructor	Anirban Goswami
Email	anirban.goswami@bison.howard.edu
Office Hours	4 th floor offices, R 1:00-2:00pm

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube video in the link above to make their reports (for example, in Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B and C will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Tuesdays 3:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B, C)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 6, 2022 – 3:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	B	September 13, 2022 – 3:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	C	September 20, 2022 – 3:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	A	September 27, 2022 – 3:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	B	October 4, 2022 – 3:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	C	October 18, 2022 – 3:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 25, 2022 – 3:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	November 1, 2022 – 3:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	C	November 8, 2022 – 3:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	A	November 15, 2022 – 3:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	B	November 22, 2022 – 3:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 305, Thursday 3:10-5:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Stacyann Nelson
Email	stacyann.nelson@howard.edu
Office Hours	Room 201

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

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B and C will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Thursdays 3:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B, C)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 8, 2022 – 3:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	B	September 15, 2022 – 3:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	C	September 22, 2022 – 3:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	A	September 29, 2022 – 3:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	B	October 6, 2022 – 3:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	C	October 20, 2022 – 3:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 27, 2022 – 3:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	November 3, 2022 – 3:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	C	November 10, 2022 – 3:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	A	November 17, 2022 – 3:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	B	December 1, 2022 – 3:10PM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend		
Week 15	November 28, 2022	December 2, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 305, Thursday 10:10-12:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Stacyann Nelson
Email	stacyann.nelson@howard.edu
Office Hours	Room 201

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

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B and C will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Thursdays 10:10am

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B, C)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 8, 2022 – 10:10AM
Week 3	September 5, 2022	September 9, 2022	Force Table	B	September 15, 2022 – 10:10AM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	C	September 22, 2022 – 10:10AM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	A	September 29, 2022 – 10:10AM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	B	October 6, 2022 – 10:10AM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	C	October 20, 2022 – 10:10AM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 27, 2022 – 10:10AM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	November 3, 2022 – 10:10AM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	C	November 10, 2022 – 10:10AM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	A	November 17, 2022 – 10:10AM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	B	December 1, 2022 – 10:10AM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend		
Week 15	November 28, 2022	December 2, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 001-04 General Physics I (Laboratory)

Location: Room 305, Tuesday 10:10-12:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Stacyann Nelson
Email	stacyann.nelson@howard.edu
Office Hours	Room 201

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

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B and C will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Tuesdays 10:10am

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B, C)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 6, 2022 – 10:10AM
Week 3	September 5, 2022	September 9, 2022	Force Table	B	September 13, 2022 – 10:10AM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	C	September 20, 2022 – 10:10AM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	A	September 27, 2022 – 10:10AM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	B	October 4, 2022 – 10:10AM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	C	October 18, 2022 – 10:10AM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 25, 2022 – 10:10AM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	November 1, 2022 – 10:10AM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	C	November 8, 2022 – 10:10AM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	A	November 15, 2022 – 10:10AM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	B	November 22, 2022 – 10:10AM
Week 14	November 21, 2022	November 25, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 001-05 General Physics I (Laboratory)

Location: Room 305, Tuesday 6:10-8:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

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

Lab Instructor	Trey Jean-Baptiste
Email	Trey.jeanbaptiste@gmail.com
Office Hours	4th Floor Offices, TR 1:10PM-4PM

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B and C will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Tuesdays 6:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B, C)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 6, 2022 – 6:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	B	September 13, 2022 – 6:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	C	September 20, 2022 – 6:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	A	September 27, 2022 – 6:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	B	October 4, 2022 – 6:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	C	October 18, 2022 – 6:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 25, 2022 – 6:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	November 1, 2022 – 6:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	C	November 8, 2022 – 6:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	A	November 15, 2022 – 6:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	B	November 22, 2022 – 6:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 001-06 General Physics I (Laboratory)

Location: Room 305, Thursday 6:10-8:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

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

Lab Instructor	Trey Jean-Baptiste
Email	Trey.jeanbaptiste@gmail.com
Office Hours	4th Floor Offices, TR 1:10PM-4PM

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Thursdays 6:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 8, 2022 – 6:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	B	September 15, 2022 – 6:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	A	September 22, 2022 – 6:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	B	September 29, 2022 – 6:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	A	October 6, 2022 – 6:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	B	October 20, 2022 – 6:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 27, 2022 – 6:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	November 3, 2022 – 6:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	A	November 10, 2022 – 6:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	B	November 17, 2022 – 6:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	A	December 1, 2022 – 6:10PM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend		
Week 15	November 28, 2022	December 2, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 001-07 General Physics I (Laboratory)

Location: Room 305, Thursday 1:10-3:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

Lab Instructor	Kaur Ravneet
Email	ravneet.kaur@bison.howard.edu
Office Hours	4th Floor Office 12:00-1:00pm

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

Schedule (subject to change)

Deadline for lab report: Thursdays 1:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 8, 2022 – 1:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	September 15, 2022 – 1:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 22, 2022 – 1:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 29, 2022 – 1:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 6, 2022 – 1:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	October 20, 2022 – 1:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 27, 2022 – 1:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	November 3, 2022 – 1:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 10, 2022 – 1:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 17, 2022 – 1:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	December 1, 2022 – 1:10PM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend	
Week 15	November 28, 2022	December 2, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 001-08 General Physics I (Laboratory)

Location: Room 305, Wednesday 5:10-7:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

Course Instructor	Dr. Dragana Tankosic
Email	dragana.tankosic@howard.edu
Office Hours	Room 202

Lab Instructor	Trey Jean-Baptiste
Email	Trey.jeanbaptiste@gmail.com
Office Hours	4th Floor Offices, TR 1:10PM-4PM

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

Schedule (subject to change)

Deadline for lab report: Wednesdays 5:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 7, 2022 – 5:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	September 14, 2022 – 5:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 21, 2022 – 5:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 28, 2022 – 5:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 5, 2022 – 5:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	October 19, 2022 – 5:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 26, 2022 – 5:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	November 2, 2022 – 5:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 9, 2022 – 5:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 16, 2022 – 5:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	November 23, 2022 – 5:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 001-09 General Physics I (Laboratory)

Location: Room 305, Monday 5:10-7:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Dragana Tankosic
Email	dragana.tankosic@howard.edu
Office Hours	Room 202

Lab Instructor	Trey Jean-Baptiste
Email	Trey.jeanbaptiste@gmail.com
Office Hours	4th Floor Offices, TR 1:10PM-4PM

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Mondays 5:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 12, 2022 – 5:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	Labor Day: Complete Online	September 12, 2022 – 5:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	B	September 19, 2022 – 5:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	A	September 26, 2022 – 5:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	B	October 3, 2022 – 5:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	Mental Health Day: Complete Online	October 17, 2022 – 5:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 24, 2022 – 5:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	October 31, 2022 – 5:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	A	November 7, 2022 – 5:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	B	November 14, 2022 – 5:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	A	November 21, 2022 – 5:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 001-10 General Physics I (Laboratory)

Location: Room 305, Friday 11:10-1:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Dragana Tankosic
Email	dragana.tankosic@howard.edu
Office Hours	Room 202

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

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Fridays 11:10am

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 9, 2022 – 11:10AM
Week 3	September 5, 2022	September 9, 2022	Force Table	B	September 16, 2022 – 11:10AM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	A	September 23, 2022 – 11:10AM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	B	September 30, 2022 – 11:10AM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	A	October 7, 2022 – 11:10AM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	B	October 21, 2022 – 11:10AM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 28, 2022 – 11:10AM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	November 4, 2022 – 11:10AM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	A	November 18, 2022 – 11:10AM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	Veteran's Day: Complete Online	November 18, 2022 – 11:10AM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	A	December 2, 2022 – 11:10AM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend		
Week 15	November 28, 2022	December 2, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 001-11 General Physics I (Laboratory)

Location: Room 305, Monday 11:10-1:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Dragana Tankosic
Email	dragana.tankosic@howard.edu
Office Hours	Room 202

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

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B and C will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Mondays 11:10am

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	A	September 12, 2022 – 11:10AM
Week 3	September 5, 2022	September 9, 2022	Force Table	Labor Day: Complete Online	September 12, 2022 – 11:10AM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	B	September 19, 2022 – 11:10AM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	A	September 26, 2022 – 11:10AM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	B	October 3, 2022 – 11:10AM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	Mental Health Day: Complete Online	October 17, 2022 – 11:10AM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	A	October 24, 2022 – 11:10AM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	B	October 31, 2022 – 11:10AM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	A	November 7, 2022 – 11:10AM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	B	November 14, 2022 – 11:10AM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	A	November 21, 2022 – 11:10AM
Week 14	November 21, 2022	November 25, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 304, Thursday 10:10-12:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Yahya Alqahtani
Email	yahya.alqahtani@howard.edu
Office Hours	Room 101

Lab Instructor	Hawazin Alghamdi
Email	hawazin.alghamdi@bison.howard.edu
Office Hours	4 th floor offices, T 1:00-2:00pm

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Thursdays 10:10am

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	A	September 8, 2022 – 10:10AM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge	B	September 15, 2022 – 10:10AM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	A	September 22, 2022 – 10:10AM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	B	September 29, 2022 – 10:10AM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	A	October 6, 2022 – 10:10AM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope	B	October 20, 2022 – 10:10AM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	A	October 27, 2022 – 10:10AM
Week 10	October 24, 2022	October 28, 2022	Refraction	B	November 3, 2022 – 10:10AM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	A	November 10, 2022 – 10:10AM
Week 12	November 7, 2022	November 11, 2022	Diffraction	B	November 17, 2022 – 10:10AM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	A	December 1, 2022 – 10:10AM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend		
Week 15	November 28, 2022	December 2, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 304, Tuesday 10:10-12:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Yahya Alqahtani
Email	yahya.alqahtani@howard.edu
Office Hours	Room 101

Lab Instructor	Hawazin Alghamdi
Email	hawazin.alghamdi@bison.howard.edu
Office Hours	4 th floor offices, T 1:00-2:00pm

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B and C will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Tuesdays 10:10am

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	A	September 6, 2022 – 10:10AM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge	B	September 13, 2022 – 10:10AM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	A	September 20, 2022 – 10:10AM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	B	September 27, 2022 – 10:10AM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	A	October 4, 2022 – 10:10AM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope	B	October 18, 2022 – 10:10AM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	A	October 25, 2022 – 10:10AM
Week 10	October 24, 2022	October 28, 2022	Refraction	B	November 1, 2022 – 10:10AM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	A	November 8, 2022 – 10:10AM
Week 12	November 7, 2022	November 11, 2022	Diffraction	B	November 15, 2022 – 10:10AM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	A	November 22, 2022 – 10:10AM
Week 14	November 21, 2022	November 25, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 304, Tuesday 1:10-3:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

Course Instructor	Dr. Yahya Alqahtani
Email	yahya.alqahtani@howard.edu
Office Hours	Room 101

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

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

Schedule (subject to change)

Deadline for lab report: Tuesdays 1:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	September 6, 2022 – 1:10PM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge	September 13, 2022 – 1:10PM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	September 20, 2022 – 1:10PM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	September 27, 2022 – 1:10PM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	October 4, 2022 – 1:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope	October 18, 2022 – 1:10PM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	October 25, 2022 – 1:10PM
Week 10	October 24, 2022	October 28, 2022	Refraction	November 1, 2022 – 1:10PM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	November 8, 2022 – 1:10PM
Week 12	November 7, 2022	November 11, 2022	Diffraction	November 15, 2022 – 1:10PM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	November 22, 2022 – 1:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 304, Tuesday 5:10-7:00pm

Report submission: Online by email to lab instructor by deadline listed in syllabus

Course Instructor	Dr. Yahya Alqahtani
Email	yahya.alqahtani@howard.edu
Office Hours	Room 101

Lab Instructor	Hawazin Alghamdi
Email	hawazin.alghamdi@bison.howard.edu
Office Hours	4 th floor offices, T 1:00-2:00pm

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

Important Note: Due to the large number of students enrolled, this course is split into lab groups. The assigned group will attend lab physically for their corresponding week while the other groups watch the YouTube videos to make their reports (for example, Week 2, Group A will attend physically in room 305 and use their data to create a report. Group B will create their reports using the data in the YouTube video). Exams will have all groups attend physically. Your groups are assigned to you during Week 1: Introduction to Labs.

Schedule (subject to change)

Deadline for lab report: Tuesdays 5:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Groups (A, B)	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	All	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	A	September 6, 2022 – 5:10PM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge	B	September 13, 2022 – 5:10PM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	A	September 20, 2022 – 5:10PM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	B	September 27, 2022 – 5:10PM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	A	October 4, 2022 – 5:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	All	In-person exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope	B	October 18, 2022 – 5:10PM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	A	October 25, 2022 – 5:10PM
Week 10	October 24, 2022	October 28, 2022	Refraction	B	November 1, 2022 – 5:10PM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	A	November 8, 2022 – 5:10PM
Week 12	November 7, 2022	November 11, 2022	Diffraction	B	November 15, 2022 – 5:10PM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	A	November 22, 2022 – 5:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	All	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 305, Friday 3:10-5:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

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

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

Schedule (subject to change)

Deadline for lab report: Fridays 3:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 9, 2022 – 3:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	September 16, 2022 – 3:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 23, 2022 – 3:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 30, 2022 – 3:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 7, 2022 – 3:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	October 21, 2022 – 3:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 28, 2022 – 3:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	November 4, 2022 – 3:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 18, 2022 – 3:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 18, 2022 – 3:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	December 2, 2022 – 3:10PM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend	
Week 15	November 28, 2022	December 2, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 305, Wednesday 1:10-3:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

Lab Instructor	Anirban Goswami
Email	anirban.goswami@bison.howard.edu
Office Hours	4 th floor offices, R 1:00-2:00pm

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

Schedule (subject to change)

Deadline for lab report: Wednesdays 1:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 7, 2022 – 1:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	September 14, 2022 – 1:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 21, 2022 – 1:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 28, 2022 – 1:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 5, 2022 – 1:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	October 19, 2022 – 1:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 26, 2022 – 1:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	November 2, 2022 – 1:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 9, 2022 – 1:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 16, 2022 – 1:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	November 23, 2022 – 1:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 023-03 Physics for Sci and Eng I (Laboratory)

Location: Room 305, Tuesday 1:10-3:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

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

Schedule (subject to change)

Deadline for lab report: Tuesdays 1:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 6, 2022 – 1:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	September 13, 2022 – 1:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 20, 2022 – 1:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 27, 2022 – 1:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 4, 2022 – 1:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	October 18, 2022 – 1:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 25, 2022 – 1:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	November 1, 2022 – 1:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 8, 2022 – 1:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 15, 2022 – 1:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	November 22, 2022 – 1:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 023-04 Physics for Sci and Eng I (Laboratory)

Location: Room 305, Wednesday 11:10-1:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

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

Schedule (subject to change)

Deadline for lab report: Wednesdays 11:10am

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 7, 2022 – 11:10AM
Week 3	September 5, 2022	September 9, 2022	Force Table	September 14, 2022 – 11:10AM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 21, 2022 – 11:10AM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 28, 2022 – 11:10AM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 5, 2022 – 11:10AM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	October 19, 2022 – 11:10AM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 26, 2022 – 11:10AM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	November 2, 2022 – 11:10AM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 9, 2022 – 11:10AM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 16, 2022 – 11:10AM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	November 23, 2022 – 11:10AM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 023-05 Physics for Sci and Eng I (Laboratory)

Location: Room 305, Monday 1:10-3:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

Lab Instructor	Anirban Goswami
Email	anirban.goswami@bison.howard.edu
Office Hours	4 th floor offices, R 1:00-2:00pm

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

Schedule (subject to change)

Deadline for lab report: Mondays 1:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 12, 2022 – 1:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table Labor Day: Complete Online	September 12, 2022 – 1:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 19, 2022 – 1:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 26, 2022 – 1:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 3, 2022 – 1:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque Mental Health Day: Complete Online	October 17, 2022 – 1:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 24, 2022 – 1:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	October 31, 2022 – 1:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 7, 2022 – 1:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 14, 2022 – 1:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	November 21, 2022 – 1:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 023-06 Physics for Sci and Eng I (Laboratory)

Location: Room 305, Friday 1:10-3:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

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

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

Schedule (subject to change)

Deadline for lab report: Fridays 1:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 9, 2022 – 1:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	September 16, 2022 – 1:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 23, 2022 – 1:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 30, 2022 – 1:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 7, 2022 – 1:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	October 21, 2022 – 1:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 28, 2022 – 1:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	November 4, 2022 – 1:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 18, 2022 – 1:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 18, 2022 – 1:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	December 2, 2022 – 1:10PM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend	
Week 15	November 28, 2022	December 2, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 023-07 Physics for Sci and Eng I (Laboratory)

ONLINE COURSE

Report submission: Online by email to lab instructor by deadline listed in syllabus

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

Lab Instructor	Kaur Ravneet
Email	ravneet.kaur@bison.howard.edu
Office Hours	4th Floor Office 12:00-1:00pm

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

Important Note: This course is fully online. Please complete your lab reports using the YouTube videos in the above link and submit your reports by the corresponding deadline. If the lab instructor requests it, you might be required to attend physically for the exams.

Schedule (subject to change)

Deadline for lab report: Wednesdays 5:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Measurements	September 7, 2022 – 5:10PM
Week 3	September 5, 2022	September 9, 2022	Force Table	September 14, 2022 – 5:10PM
Week 4	September 12, 2022	September 16, 2022	Rectilinear Motion	September 21, 2022 – 5:10PM
Week 5	September 19, 2022	September 23, 2022	Atwood's Machine	September 28, 2022 – 5:10PM
Week 6	September 26, 2022	September 30, 2022	Ballistic Pendulum	October 5, 2022 – 5:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person or Online exam
Week 8	October 10, 2022	October 14, 2022	Rotation and Torque	October 19, 2022 – 5:10PM
Week 9	October 17, 2022	October 21, 2022	Simple Harmonic Motion	October 26, 2022 – 5:10PM
Week 10	October 24, 2022	October 28, 2022	Archimedes Principle	November 2, 2022 – 5:10PM
Week 11	October 31, 2022	November 4, 2022	Specific Heat of Solids	November 9, 2022 – 5:10PM
Week 12	November 7, 2022	November 11, 2022	Thermal Expansion	November 16, 2022 – 5:10PM
Week 13	November 14, 2022	November 18, 2022	Resonance in Air Columns	November 23, 2022 – 5:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person or Online exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 304, Tuesday 3:10-5:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

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

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

Schedule (subject to change)

Deadline for lab report: Tuesdays 3:10PM

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	September 6, 2022 – 3:10PM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge	September 13, 2022 – 3:10PM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	September 20, 2022 – 3:10PM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	September 27, 2022 – 3:10PM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	October 4, 2022 – 3:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope	October 18, 2022 – 3:10PM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	October 25, 2022 – 3:10PM
Week 10	October 24, 2022	October 28, 2022	Refraction	November 1, 2022 – 3:10PM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	November 8, 2022 – 3:10PM
Week 12	November 7, 2022	November 11, 2022	Diffraction	November 15, 2022 – 3:10PM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	November 22, 2022 – 3:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

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

Location: Room 304, Thursday 3:10-5:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

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

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

Schedule (subject to change)

Deadline for lab report: Thursdays 3:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	September 8, 2022 – 3:10PM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge	September 15, 2022 – 3:10PM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	September 22, 2022 – 3:10PM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	September 29, 2022 – 3:10PM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	October 6, 2022 – 3:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope	October 20, 2022 – 3:10PM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	October 27, 2022 – 3:10PM
Week 10	October 24, 2022	October 28, 2022	Refraction	November 3, 2022 – 3:10PM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	November 10, 2022 – 3:10PM
Week 12	November 7, 2022	November 11, 2022	Diffraction	November 17, 2022 – 3:10PM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	December 1, 2022 – 3:10PM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend	
Week 15	November 28, 2022	December 2, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 024-03 Physics for Sci and Eng II (Laboratory)

Location: Room 304, Wednesday 11:10-1:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

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

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

Schedule (subject to change)

Deadline for lab report: Wednesdays 11:10am

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	September 7, 2022 – 11:10AM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge	September 14, 2022 – 11:10AM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	September 21, 2022 – 11:10AM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	September 28, 2022 – 11:10AM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	October 5, 2022 – 11:10AM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope	October 19, 2022 – 11:10AM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	October 26, 2022 – 11:10AM
Week 10	October 24, 2022	October 28, 2022	Refraction	November 2, 2022 – 11:10AM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	November 9, 2022 – 11:10AM
Week 12	November 7, 2022	November 11, 2022	Diffraction	November 16, 2022 – 11:10AM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	November 23, 2022 – 11:10AM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 024-04 Physics for Sci and Eng II (Laboratory)

Location: Room 304, Monday 3:10-5:00pm

Report submission: In-person to your lab instructor at the beginning of next lab

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

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

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

Schedule (subject to change)

Deadline for lab report: Mondays 3:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	September 12, 2022 – 3:10PM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge Labor Day: Complete Online	September 12, 2022 – 3:10PM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	September 19, 2022 – 3:10PM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	September 26, 2022 – 3:10PM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	October 3, 2022 – 3:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope Mental Health Day: Complete Online	October 17, 2022 – 3:10PM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	October 24, 2022 – 3:10PM
Week 10	October 24, 2022	October 28, 2022	Refraction	October 31, 2022 – 3:10PM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	November 7, 2022 – 3:10PM
Week 12	November 7, 2022	November 11, 2022	Diffraction	November 14, 2022 – 3:10PM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	November 21, 2022 – 3:10PM
Week 14	November 21, 2022	November 25, 2022	Exam 2	In-person exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 024-05 Physics for Sci and Eng II (Laboratory)

ONLINE COURSE

Report submission: Online by email to lab instructor by deadline listed in syllabus

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

Lab Instructor	Kaur Ravneet
Email	ravneet.kaur@bison.howard.edu
Office Hours	4th Floor Office 12:00-1:00pm

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

Important Note: This course is fully online. Please complete your lab reports using the YouTube videos in the above link and submit your reports by the corresponding deadline. If the lab instructor requests it, you might be required to attend physically for the exams.

Schedule (subject to change)

Deadline for lab report: Thursdays 5:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Electric Field	September 8, 2022 – 5:10PM
Week 3	September 5, 2022	September 9, 2022	Wheatstone Bridge	September 15, 2022 – 5:10PM
Week 4	September 12, 2022	September 16, 2022	Ohm's Law	September 22, 2022 – 5:10PM
Week 5	September 19, 2022	September 23, 2022	RC Circuits	September 29, 2022 – 5:10PM
Week 6	September 26, 2022	September 30, 2022	External Magnetic Field	October 6, 2022 – 5:10PM
Week 7	October 3, 2022	October 7, 2022	Exam 1	In-person or Online exam
Week 8	October 10, 2022	October 14, 2022	Oscilloscope	October 20, 2022 – 5:10PM
Week 9	October 17, 2022	October 21, 2022	Ray Tracing	October 27, 2022 – 5:10PM
Week 10	October 24, 2022	October 28, 2022	Refraction	November 3, 2022 – 5:10PM
Week 11	October 31, 2022	November 4, 2022	Focal Length of Lenses	November 10, 2022 – 5:10PM
Week 12	November 7, 2022	November 11, 2022	Diffraction	November 17, 2022 – 5:10PM
Week 13	November 14, 2022	November 18, 2022	Atomic Spectra	December 1, 2022 – 5:10PM
Week 14	November 21, 2022	November 25, 2022	Thanksgiving Weekend	
Week 15	November 28, 2022	December 2, 2022	Exam 2	In-person or Online exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%

Howard University
Department of Physics and Astronomy
Fall 2022

Course: PHYS 025-01 Physics for Sci and Eng II (Laboratory)

ONLINE COURSE

Report submission: Online by email to lab instructor by deadline listed in syllabus

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

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

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

Important Note: This course is fully online. Please complete your lab reports using the YouTube videos in the above link and submit your reports by the corresponding deadline. If the lab instructor requests it, you might be required to attend physically for the exams.

Schedule (subject to change)

Deadline for lab report: Thursday 1:10pm

Week #	Week Starts	Week Ends	Laboratory Name	Due Date
Week 1	August 22, 2022	August 26, 2022	Introduction	N/A
Week 2	August 29, 2022	September 2, 2022	Interferometry	September 8, 2022 – 1:10PM
Week 3	September 5, 2022	September 9, 2022	Index of Refraction	September 15, 2022 – 1:10PM
Week 4	September 12, 2022	September 16, 2022	Photoelectric Effect Lab#1	September 22, 2022 – 1:10PM
Week 5	September 19, 2022	September 23, 2022	Photoelectric Effect Lab#2	September 29, 2022 – 1:10PM
Week 6	September 26, 2022	September 30, 2022	Exam 1	In-person or Online exam
Week 7	October 3, 2022	October 7, 2022	Photoelectric Effect Lab#3	October 13, 2022 – 1:10PM
Week 8	October 10, 2022	October 14, 2022	Bragg Diffraction	October 20, 2022 – 1:10PM
Week 9	October 17, 2022	October 21, 2022	Double Slit Interference	October 27, 2022 – 1:10PM
Week 10	October 24, 2022	October 28, 2022	Mass-to-Charge Ratio	November 4, 2022 – 1:10PM
Week 11	October 31, 2022	November 4, 2022	Exam 2	In-person or Online exam

Grade breakdown: Lab reports 50% | Exams 40% | Attendance 10%