# Physics

## PHYS 1052  SOLAR SYSTEM

<table>
<thead>
<tr>
<th>Section</th>
<th>Lecture Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>004</td>
<td>12:30 pm-01:50 pm</td>
<td>ENV 110</td>
<td>Baxley J</td>
</tr>
<tr>
<td>100</td>
<td>10:00 am-11:20 am</td>
<td>INET</td>
<td>Bennett R</td>
</tr>
</tbody>
</table>

Directions for scheduling laboratory sessions will be given on the first day of class. All laboratories are self-enrolled through Blackboard. For lab schedules, lab syllabus, and other lab information go to [http://www.astronomy.unt.edu/labs.htm](http://www.astronomy.unt.edu/labs.htm).

This is an internet course. Course enrollment is restricted and non-Texas resident students residing outside of the state are not eligible to enroll in this section. Contact the department for enrollment assistance in an appropriate section of the course if applicable.

Access Day 1 course: This section includes a discounted fee to cover the cost of required digital materials and/or an electronic textbook assigned by the instructor of the course. The fee is provided at a lower rate from publisher partners and Barnes & Noble at UNT. This fee will be added to your tuition and fees when you register for your courses. You have the choice to opt out of this fee once the course is live in Canvas. For more information about AD1, visit: [affordability.unt.edu/students](http://affordability.unt.edu/students).

## PHYS 1062  STARS & THE UNIV

<table>
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<tr>
<td>003</td>
<td>11:00 am-12:20 pm</td>
<td>ENV 130</td>
<td>Shemmer O</td>
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Directions for scheduling laboratory sessions will be given on the first day of class. All laboratories are self-enrolled through Blackboard. For lab schedules, lab syllabus, and other lab information go to [http://www.astronomy.unt.edu/labs.htm](http://www.astronomy.unt.edu/labs.htm).

This is an internet course. Course enrollment is restricted and non-Texas resident students residing outside of the state are not eligible to enroll in this section. Contact the department for enrollment assistance in an appropriate section of the course if applicable.

This course is restricted. Limited to students residing out-of-state only. Contact department.

Restricted course. Approval required. Contact department.

## PHYS 1210  CONCEPTUAL PHYSICS

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<td>PHYS 104</td>
<td>Lukic-Znic R</td>
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<tr>
<td>002</td>
<td>09:59 am-10:59 am</td>
<td>PHYS 104</td>
<td>Lukic-Znic R</td>
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<td>501</td>
<td>11:00 am-12:50 pm</td>
<td>PHYS 228</td>
<td>Nyandoto G</td>
</tr>
<tr>
<td>503</td>
<td>11:00 am-12:50 pm</td>
<td>PHYS 228</td>
<td>Nyandoto G</td>
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One lab exam must be taken each week in the PHYS instructional center (PIC) testing center (PHYS 209AA) after completing the lab experiment.

MUST REGISTER FOR LAB TO GET CREDIT FOR CLASS. LABORATORY EXERCISES MUST BE COMPLETED AS PART OF THE COURSE.

MUST COMPLETE PHYS 1430.50X TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1410.201 RECITATION.

MUST COMPLETE PHYS 1440.50X TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1420.202 RECITATION.

MUST COMPLETE PHYS 1440.50X TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1420.201 RECITATION.

MUST COMPLETE PHYS 1430.50X TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1410.202 RECITATION.

MUST COMPLETE PHYS 1440.50X TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1420.201 RECITATION.
PHYS 1430  GEN PHYSIC LAB I

501 (3486) CRE 1.0 M 12:30 pm-02:20 pm PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

502 (5648) CRE 1.0 M 03:00 pm-04:50 pm PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

503 (5649) CRE 1.0 T 09:59 am-11:50 am PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

504 (5650) CRE 1.0 T 12:30 pm-02:20 pm PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

505 (5651) CRE 1.0 W 09:59 am-11:50 am PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

506 (5652) CRE 1.0 W 12:30 pm-02:20 pm PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

507 (5653) CRE 1.0 W 05:29 pm-07:20 pm PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

508 (5885) CRE 1.0 R 09:59 am-11:50 am PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

509 (5654) CRE 1.0 R 12:30 pm-02:20 pm PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

510 (5655) CRE 1.0 R 03:00 pm-04:50 pm PHYS 207 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

511 (16562) CRE 1.0 M 05:29 pm-07:20 pm PHYS 207 Nyandoto G

PHYS 1440  GEN PHYSIC LAB II

501 (3487) CRE 1.0 M 12:30 pm-02:20 pm PHYS 206 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

502 (5657) CRE 1.0 M 03:00 pm-04:50 pm PHYS 206 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

503 (5658) CRE 1.0 W 12:30 pm-02:20 pm PHYS 206 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

504 (5659) CRE 1.0 W 03:00 pm-04:50 pm PHYS 206 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

505 (5888) CRE 1.0 M 09:59 am-11:50 am PHYS 206 Nyandoto G
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

507 (16563) CRE 1.0 W 09:59 am-11:50 am PHYS 206 Nyandoto G

PHYS 1510  GEN PHYS I W/ CALC
MUST COMPLETE PHYS 1530.501 OR 502 TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1510.201 RECITATION.

ACCESS DAY 1 COURSE: THIS SECTION INCLUDES A DISCOUNTED FEE TO COVER THE COST OF REQUIRED DIGITAL MATERIALS AND/OR AN ELECTRONIC TEXTBOOK ASSIGNED BY THE INSTRUCTOR OF THE COURSE. THE FEE IS PROVIDED AT A LOWER RATE FROM PUBLISHER PARTNERS AND BARNES & NOBLE AT UNT. THIS FEE WILL BE ADDED TO YOUR TUITION AND FEES WHEN YOU REGISTER FOR YOUR COURSES. YOU HAVE THE CHOICE TO OPT OUT OF THIS FEE ONCE THE COURSE IS LIVE IN CANVAS. FOR MORE INFORMATION ABOUT AD1, VISIT: AFFORDABILITY.UNT.EDU/STUDENTS

PHYS 1530  LAB GEN PHYS W/ CALC I

ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

PHYS 1710  MECHANICS

MUST COMPLETE PHYS 1730.5XX TO GET LAB SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1710. 206, 207, 208, 209, OR 210

Also meets: F  03:59 pm-05:50 pm ART  223  9/20/19-9/20/19
Also meets: F  03:59 pm-05:50 pm ART  223  10/18/19-10/18/19
Also meets: F  03:59 pm-05:50 pm ART  223  11/22/19-11/22/19

Also meets: F  03:59 pm-05:50 pm SAGE 116  9/20/19-9/20/19
Also meets: F  03:59 pm-05:50 pm SAGE 116  10/18/19-10/18/19
Also meets: F  03:59 pm-05:50 pm SAGE 116  11/22/19-11/22/19

Also meets: F  03:59 pm-05:50 pm PHYS 104  9/20/19-9/20/19
Also meets: F  03:59 pm-05:50 pm PHYS 104  10/18/19-10/18/19
Also meets: F  03:59 pm-05:50 pm PHYS 104  11/22/19-11/22/19

Also meets: F  03:59 pm-05:50 pm ENV  130  9/20/19-9/20/19
Also meets: F  03:59 pm-05:50 pm ENV  130  10/18/19-10/18/19
Also meets: F  03:59 pm-05:50 pm ENV  130  11/22/19-11/22/19

Also meets: F  03:59 pm-05:50 pm ENV 130  9/20/19-9/20/19
Also meets: F  03:59 pm-05:50 pm ENV 130  10/18/19-10/18/19
Also meets: F  03:59 pm-05:50 pm ENV 130  11/22/19-11/22/19
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.
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MUST COMPLETE PHYS 2240.5XX TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN RECITATION PHYS 2220.201, 202, 203, 204, or 205.

MUST COMPLETE PHYS 2240.5XX TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN RECITATION PHYS 2220.206, 207, 208, 209, OR 210.

MUST COMPLETE PHYS 2240.5XX TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN RECITATION PHYS 2240.204, 205, 206, or 207.

PHYS 2220 ELECTR & MAGNET

PHYS 2240 ELEC & MAGNET LAB

ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

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## PHYS 205W Nyandoto G
**GCRE 1.0 05:29 pm-07:20 pm**

ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

## PHYS 205R Nyandoto G
**GCRE 1.0 09:59 am-11:50 am**

ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

## PHYS 205R Nyandoto G
**GCRE 1.0 03:00 pm-04:50 pm**

ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

## PHYS 205R Nyandoto G
**GCRE 1.0 05:29 pm-07:20 pm**

ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

## PHYS 205M Nyandoto G
**GCRE 1.0 12:30 pm-02:20 pm**

ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

## PHYS 205M Nyandoto G
**GCRE 1.0 03:00 pm-04:50 pm**

ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

## PHYS 2900 SPECIAL PROBLEMS

**V700 (3497)**

RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT. MULTIPLE SECTIONS OFFERED.

## PHYS 3010 MODERN PHYSICS

**001 (3525)**

CRE 3.0 TR 11:00 am-12:20 pm PHYS 115 Rout B

MUST COMPLETE PHYS 3030.501 TO GET LABORATORY SCIENCE CREDIT. MUST ENROLL IN PHYS 3010.201 RECITATION.

**201 (3526)**

REC 0.0 TR 12:30 pm-01:20 pm PHYS 115 Rout B

## PHYS 3030 MODERN PHYSICS LAB

**501 (3527)**

CRE 1.0 R 03:00 pm-05:50 pm PHYS 208 Rout B

## PHYS 3210 MECHANICS I

**001 (5030)**

CRE 3.0 MWF 12:59 pm-01:50 pm PHYS 112 Weathers D

MUST ENROLL IN PHYS 3210.201 RECITATION.

**201 (5031)**

REC 0.0 W 02:00 pm-03:50 pm PHYS 112 Weathers D

## PHYS 3220 MECHANICS II

**001 (15287)**

CRE 3.0 MWF 08:00 am-08:50 am PHYS 112 Weathers D

**201 (18050)**

REC 0.0 M 03:00 pm-03:50 pm PHYS 112 Weathers D

## PHYS 3310 MATH METH IN PHYS

**001 (3923)**

CRE 3.0 MWF 11:00 am-11:50 am PHYS 112 Quintanilla S

MUST ENROLL IN PHYS 3310.201 RECITATION.

**201 (3924)**

REC 0.0 MF 02:00 pm-02:50 pm PHYS 112 Quintanilla S

## PHYS 4210 ELEC & MAGNETISM

**001 (5284)**

CRE 3.0 MWF 09:00 am-09:50 am PHYS 115 Ordonez C

MUST ENROLL IN PHYS 4210.201 RECITATION.

**201 (5285)**

REC 0.0 M 03:00 pm-04:20 pm PHYS 116 Ordonez C

## PHYS 4420 PHYSICAL OPTICS

**001 (16968)**

CRE 3.0 MWF 09:59 am-10:50 am PHYS 112 Rout B

**201 (16969)**

REC 0.0 F 03:00 pm-03:50 pm PHYS 115 Rout B

## PHYS 4600 COMP BASED PHYS

**001 (13444)**

CRE 3.0 TR 09:30 am-10:50 am GAB 550A Buongiorno Nard

## PHYS 4900 SPECIAL PROBLEMS

**700 (3528)**

CRE V RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT. MULTIPLE SECTIONS OFFERED.

## PHYS 4910 SPECIAL PROBLEMS
**PHYS 4950**  
** SENIOR THESIS**  
700 (3555)  
CRE 3.0  
MULTIPLE SECTIONS OFFERED.  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
Glass G

703 (16682)  
CRE 3.0  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
Littler C

764 (14546)  
CRE 3.0  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
Quintanilla S

**PHYS 4955**  
** SENIOR THESIS CAPSTONE**  
700 (5549)  
CRE 3.0  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
Weathers D

704 (14522)  
CRE 3.0  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
Ordonez C

**PHYS 5500**  
** QUANTUM MECHAN 1**

001 (3559)  
CRE 3.0  TR 08:00 am-09:20 am  
PHYS 311  Rostovtsev Y  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.

**PHYS 5700**  
** COMPUTATIONAL PHYSICS**

001 (13445)  
CRE 3.0  TR 09:30 am-10:50 am  
GAB 550A  Buongiorno Nard  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.

**PHYS 5710**  
** ADV CLSSCL MECH**

001 (3560)  
CRE 3.0  MWF 08:00 am-08:50 am  
PHYS 112  Weathers D  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.

**PHYS 5720**  
** ELECTROMAG THEORY I**

001 (3561)  
CRE 3.0  TR 09:30 am-10:50 am  
PHYS 115  Shiner D  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.

**PHYS 5900**  
** SPECIAL PROBLEMS**

751 (3562)  
CRE V  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.

**PHYS 5910**  
** SPECIAL PROBLEMS**

700 (3920)  
CRE V  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

**PHYS 5920**  
** PROB LIEU THESIS**

002 (3588)  
CRE 3.0  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

**PHYS 5930**  
** PROB LIEU THESIS**

001 (4588)  
CRE 3.0  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

**PHYS 5941**  
** COLLOQUIUM**

001 (5530)  
CRE 1.0  T 03:00 pm-04:50 pm  
PHYS 104  Rostovtsev Y  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.

**PHYS 5950**  
** THESIS**

700 (3591)  
CRE V  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

**PHYS 5980**  
** SPECIAL PROBLEMS**

751 (3594)  
CRE V  
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.
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<td>001</td>
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