# Physics

## PHYS 1052  
**SOLAR SYSTEM**

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<td>INET Bennett R</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).

**WEB-BASED INSTRUCTION.**

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**

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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).

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## PHYS 1210  
**CONCEPTUAL PHYSICS**

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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.

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 REGISTER FOR LAB TO GET CREDIT FOR CLASS.

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MUST COMPLETE PHYS 1430.50X 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 1420.202 RECITATION.

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

MUST COMPLETE PHYS 1440.50X TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1420.201 RECITATION.
PHYS 102TR Lukic-Zrnic R
RREC 0.0 03:00 pm-03:50 pm
PHYS 207

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.

506 (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

501 (3485) REC 0.0 TR 03:00 pm-03:50 pm
PHYS 102 Lukic-Zrnic R
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 1710.201, 202, 203, 204, or 205.

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 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 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

PHYS 115MW Lin YREC 0.0 09:59 am-10:50 am 201

PHYS 116MW Lin YREC 0.0 11:00 am-11:50 am 202

PHYS 115MW Lin YREC 0.0 11:00 am-11:50 am 203

PHYS 116F Lin YREC 0.0 09:59 am-11:50 am 204

PHYS 116TR Lopes VREC 0.0 11:00 am-11:50 am 206
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PHYS 1730  MECHANICS LAB

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

PHYS 202R Nyandoto GCRE 1.0 12:30 pm-02:20 pm 514 (5685)
PHYS 202R Nyandoto GCRE 1.0 03:00 pm-04:50 pm 514 (5686)
PHYS 202R Nyandoto GCRE 1.0 05:29 pm-07:20 pm 514 (5687)
PHYS 202T Nyandoto GCRE 1.0 08:00 am-09:50 am 517 (5726)
PHYS 202W Nyandoto GCRE 1.0 08:00 am-09:50 am 518 (5913)
PHYS 202T Nyandoto GCRE 1.0 03:00 pm-04:50 pm 519 (5915)
PHYS 2220 ELECTR & MAGNET
001 (3495) CRE 3.0 MWF 12:00 pm-12:50 pm 001 (3495) CRE 3.0 MWF 12:00 pm-12:50 pm
PHYS 102 MWF Lopes V
MUST COMPLETE PHYS 2240.5XX TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN RECITATION PHYS 2220.201, 202, 203, 204, or 205.
Also meets: F 03:59 pm-05:50 pm GAB 105 9/20/19-9/20/19
Also meets: F 03:59 pm-05:50 pm BLB 180 10/18/19-10/18/19
Also meets: F 03:59 pm-05:50 pm BLB 180 11/22/19-11/22/19
002 (5886) CRE 3.0 TR 08:00 am-09:20 am 002 (5886) CRE 3.0 TR 08:00 am-09:20 am
PHYS 102 Motaharifar E
MUST COMPLETE PHYS 2240.5XX TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN RECITATION PHYS 2220.206, 207, 208, 209, OR 210.
Also meets: F 03:59 pm-05:50 pm GAB 104 9/20/19-9/20/19
Also meets: F 03:59 pm-05:50 pm GAB 104 10/18/19-10/18/19
Also meets: F 03:59 pm-05:50 pm GAB 104 11/22/19-11/22/19

PHYS 2240 ELEC & MAGNET LAB
501 (3496) CRE 1.0 M 09:59 am-11:50 am 501 (3496) CRE 1.0 M 09:59 am-11:50 am
PHYS 205 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 (5663) CRE 1.0 T 09:59 am-11:50 am 502 (5663) CRE 1.0 T 09:59 am-11:50 am
PHYS 205 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 (5664) CRE 1.0 T 12:30 pm-02:20 pm 503 (5664) CRE 1.0 T 12:30 pm-02:20 pm
PHYS 205 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.
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<th>Instructor</th>
<th>Days</th>
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PHYS 4950  SENIOR THESIS
700 (3555) CRE 3.0  Glass G
MULTIPLE SECTIONS OFFERED.
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.

PHYS 4955  SENIOR THESIS CAPSTONE
700 (5549) CRE 3.0  Weathers D
MULTIPLE SECTIONS OFFERED.
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.
704 (14522) CRE 3.0  Ordonez C
RESTRICTED COURSE.  APPROVAL REQUIRED.  CONTACT DEPARTMENT.

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.
PHYS 5990      SPECIAL PROBLEMS
              751 (3595) CRE V
              RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

PHYS 6110      STATISTICAL MECH I
              001 (5176) CRE 3.0 MWF 09:00 am-09:50 am PHYS 112 Grigolini P
              RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

PHYS 6900      SPECIAL PROBLEMS
              700 (3596) CRE V
              RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
              MULTIPLE SECTIONS OFFERED.

PHYS 6910      SPECIAL PROBLEMS
              700 (3609) CRE V
              RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
              MULTIPLE SECTIONS OFFERED.

PHYS 6940      INDV RESEARCH
              700 (3921) CRE V Cui J
              RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
              MULTIPLE SECTIONS OFFERED.

PHYS 6950      DISSERTATION
              700 (3922) CRE V
              RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
              MULTIPLE SECTIONS OFFERED.