## SOLAR SYSTEM

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Section</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1052</td>
<td>SOLAR SYSTEM</td>
<td>001</td>
<td>3.0</td>
<td>MWF</td>
<td>11:00 am-11:50 am</td>
<td>ENV 110</td>
<td>Titsworth M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>002</td>
<td>3.0</td>
<td>MWF</td>
<td>09:00 am-09:50 am</td>
<td>ENV 110</td>
<td>Lukic-Zrnic R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>003</td>
<td>3.0</td>
<td>M</td>
<td>06:00 pm-08:50 pm</td>
<td>ENV 130</td>
<td>Bennett R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>004</td>
<td>3.0</td>
<td>TR</td>
<td>12:30 pm-01:50 pm</td>
<td>ENV 130</td>
<td>Lawler C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>005</td>
<td>3.0</td>
<td>TR</td>
<td>09:30 am-10:50 am</td>
<td>ENV 130</td>
<td>Lawler C</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).

## STARS & THE UNIV

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1062</td>
<td>STARS &amp; THE UNIV</td>
<td>001</td>
<td>3.0</td>
<td>MWF</td>
<td>09:59 am-10:50 am</td>
<td>ENV 130</td>
<td>Titsworth M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>002</td>
<td>3.0</td>
<td>W</td>
<td>06:00 pm-08:50 pm</td>
<td>ENV 130</td>
<td>Titsworth M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>003</td>
<td>3.0</td>
<td>TR</td>
<td>11:00 am-12:20 pm</td>
<td>ENV 130</td>
<td>Shemmer O</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).

## CONCEPTUAL PHYSICS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Section</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1210</td>
<td>CONCEPTUAL PHYSICS</td>
<td>001</td>
<td>3.0</td>
<td>TR</td>
<td>09:30 am-10:50 am</td>
<td>PHYS 104</td>
<td>Lopes V</td>
</tr>
<tr>
<td></td>
<td></td>
<td>002</td>
<td>3.0</td>
<td>MWF</td>
<td>09:59 am-10:50 am</td>
<td>PHYS 104</td>
<td>Lopes V</td>
</tr>
<tr>
<td></td>
<td></td>
<td>501</td>
<td>0.0</td>
<td>M</td>
<td>12:30 pm-02:20 pm</td>
<td>PHYS 228</td>
<td>Nyandoto G</td>
</tr>
</tbody>
</table>

One lab exam must be taken each week in the Physics 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.

PHYS 1270 SCI MUSICAL SOUND

001 (4834) CRE 3.0 MWF 09:00 am-09:50 am CURY 204 Lawler C
MUST REGISTER FOR LAB TO GET CREDIT FOR CLASS.
LABORATORY EXERCISES MUST BE COMPLETED AS PART OF THE COURSE.

002 (14944) CRE 3.0 MWF 12:00 pm-12:50 pm CURY 204 Lawler C
MUST REGISTER FOR LAB TO GET CREDIT FOR CLASS.
LABORATORY EXERCISES MUST BE COMPLETED AS PART OF THE COURSE.

PHYS 1315 INTRO TO PHYSICS

001 (4835) CRE 3.0 MWF 11:00 am-11:50 am PHYS 104 Lukic-Zrnic R
MUST REGISTER FOR THE LAB TO GET CREDIT FOR CLASS.

002 (5758) CRE 3.0 TR 11:00 am-12:20 pm PHYS 104 Lukic-Zrnic R
MUST REGISTER FOR THE LAB TO GET CREDIT FOR CLASS.

003 (5875) LAB 0.0 W 09:00 am-10:50 am PHYS 204 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.

004 (5876) LAB 0.0 R 12:30 pm-02:20 pm PHYS 204 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.

005 (5877) LAB 0.0 R 03:00 pm-04:50 pm PHYS 204 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.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1410</td>
<td>GEN PHYSICS I</td>
<td></td>
<td>06:00 pm-08:50 pm</td>
<td>Rout B</td>
<td>MUST COMPLETE PHYS 1430.50X TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1410.201 RECITATION.</td>
</tr>
<tr>
<td>PHYS 1420</td>
<td>GEN PHYSICS II</td>
<td></td>
<td>12:30 pm-01:50 pm</td>
<td>Rout B</td>
<td>MUST COMPLETE PHYS 1440.50X TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1420.201 RECITATION.</td>
</tr>
<tr>
<td>PHYS 1430</td>
<td>GEN PHYSIC LAB I</td>
<td></td>
<td>12:30 pm-02:20 pm</td>
<td>Nyandoto G</td>
<td>ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.</td>
</tr>
<tr>
<td>PHYS 1440</td>
<td>GEN PHYSIC LAB II</td>
<td></td>
<td>12:30 pm-02:20 pm</td>
<td>Nyandoto G</td>
<td>ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.</td>
</tr>
</tbody>
</table>
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

PHYS 1510  GEN PHYS I W/ CALC
001 (3602)  CRE 3.0  TR  12:30 pm-01:50 pm  PHYS 104  Littler C
MUST COMPLETE PHYS 1530.501 OR 502 TO GET LABORATORY SCIENCE CREDIT. MUST ALSO ENROLL IN PHYS 1510.201 RECITATION.

PHYS 1530  LAB GEN PHYS W/ CALC I
501 (3604)  CRE 1.0  M  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.

PHYS 1710  MECHANICS
001 (4397)  CRE 3.0  MWF  09:00 am-09:50 am  PHYS 102  Lopes V
MUST COMPLETE PHYS 1730.5XX TO GET LABORATORY SCIENCE CREDIT. TESTS WILL BE GIVEN ON ALSO MEETS' DATES. MUST ALSO ENROLL IN RECITATION PHYS 1710.201, 202, 203, 204, or 205.

PHYS 1730  MECHANICS LAB
501 (3608)  CRE 1.0  M  09:59 am-11:50 am  PHYS 202  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.
ONE LAB EXAM MUST BE TAKEN EACH WEEK IN THE PHYSICS INSTRUCTIONAL CENTER (PIC) TESTING CENTER (PHYS 209AA) AFTER COMPLETING THE LAB EXPERIMENT.

PHYS 2220  ELECTR & MAGNET
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.

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

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

MUST COMPLETE PHYS 3030.501 TO GET LABORATORY SCIENCE CREDIT. MUST ENROLL IN PHYS 3010.201 RECITATION.
PHYS 3210  MECHANICS I
001 (3645)  CRE 1.0  R  03:00 pm-05:50 pm  PHYS 208  Nyandoto G
MUST ENROLL IN PHYS 3210.201 RECITATION.
201 (5221)  CRE 3.0  MWF  12:59 pm-01:50 pm  PHYS 112  Perez J
PHYS 3220  MECHANICS II
001 (16780)  CRE 3.0  MWF  08:00 am-08:50 am  PHYS 112  Krokhin A
PHYS 3310  MATH METH IN PHYS
001 (4081)  CRE 3.0  MWF  11:00 am-11:50 am  PHYS 112  Quintanilla S
MUST ENROLL IN PHYS 3310.201 RECITATION.
201 (4082)  REC 0.0  M  12:00 pm-12:50 pm  PHYS 112  Quintanilla S
PHYS 4210  ELEC & MAGNETISM
001 (5493)  CRE 3.0  MWF  09:00 am-09:50 am  PHYS 115  Weathers D
MUST ENROLL IN PHYS 4210.201 RECITATION.
201 (5494)  REC 0.0  M  12:00 pm-12:50 pm  PHYS 115  Weathers D
PHYS 4600  COMP BASED PHYS
001 (14213)  CRE 3.0  TR  09:30 am-10:50 am  GAB 550A  Buongiorno Nard
PHYS 4650  INTRO MODERN ASTROPHYS
001 (17015)  CRE 3.0  TR  08:00 am-09:20 am  PHYS 112  Weathers D
201 (17016)  REC 0.0  T  11:00 am-11:50 am  PHYS 112  Weathers D
PHYS 4900  SPECIAL PROBLEMS
700 (3646)  CRE V  RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
MULTIPLE SECTIONS OFFERED.
PHYS 4910  SPECIAL PROBLEMS
700 (3662)  CRE V  Brostow W
MULTIPLE SECTIONS OFFERED
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
PHYS 4950  SENIOR THESIS
700 (3677)  CRE 3.0  RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
MULTIPLE SECTIONS OFFERED.
704 (15503)  CRE 3.0  RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
PHYS 4955  SENIOR THESIS CAPSTONE
700 (5776)  CRE 3.0  RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
704 (15474)  CRE 3.0  RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
PHYS 5500  QUANTUM MECHAN 1
001 (3682)  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 (14214)  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 (3683)  CRE 3.0  MWF  08:00 am-08:50 am  PHYS 112  Krokhin A
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.
PHYS 5720  ELECTROMAG THEORY I
001 (3684)  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 (3685) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

PHYS 5910  SPECIAL PROBLEMS  
700 (4078) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

PHYS 5920  PROB LIEU THESIS  
002 (3715) CRE 3.0  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

PHYS 5930  PROB LIEU THESIS  
001 (4757) CRE 3.0  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

PHYS 5941  COLLOQUIUM  
001 (5756) CRE 1.0  T 03:00 pm-04:50 pm  
PHYS 104  
Rostovtsev Y  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

PHYS 5950  THESIS  
700 (3718) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

PHYS 5960  SPECIAL PROBLEMS  
751 (3721) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

PHYS 5990  SPECIAL PROBLEMS  
751 (3722) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

PHYS 6110  STATISTICAL MECH I  
001 (5380) CRE 3.0  MWF 09:00 am-09:50 am  
PHYS 112  
Grigolini P  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

PHYS 6800  SOLID STATE PHYS  
001 (5735) CRE 3.0  F 12:59 pm-03:50 pm  
PHYS 311  
Neogi A  
Course Topic: SELECT TOPICS-SOLID STATE PHYS  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.

PHYS 6900  SPECIAL PROBLEMS  
700 (3723) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

PHYS 6910  SPECIAL PROBLEMS  
700 (3739) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

PHYS 6940  INDV RESEARCH  
700 (4079) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.

PHYS 6950  DISSERTATION  
700 (4080) CRE V  
RESTRICTED COURSE. APPROVAL REQUIRED. CONTACT DEPARTMENT.  
MULTIPLE SECTIONS OFFERED.