ELECTROMAGNETICS LABORATORY
Student Waiver Form

I, ____________________________, have read and understand the attached rules of the laboratory and, if appropriate, the Laboratory Operating Procedures (Laser and/or compressed gas). I understand that violation of these rules and procedures may result in loss of access to the laboratory. I have reviewed the attached list of equipment and gases that are currently in the laboratory and am aware of the nature of the activities undertaken in the laboratory and the risks related to those activities. I have consulted with the director regarding all my health and safety concerns and have advised him of the specific health conditions listed below. All my questions regarding the laboratory and the use of its equipment and contents have been answered to my satisfaction.

In utilizing the laboratory, I specifically waive any and all claims against the Board of Regents of the University and Community College System of Nevada and the University of Nevada, Las Vegas, and their respective employees for compensation for any injury or damages which I may incur as a result of utilizing the laboratory. I acknowledge that this waiver is signed freely, voluntarily and under no compulsion.

[Signature of Signee] [Date]

[Signature of Director] [Date]

☐ HeNe Laser Class 3b ☐ Ruby Laser Class 4 ☐ High Voltage Equip. ☐ G.A. Office Space ☐
☐ CO2 Laser Class 4 ☐ Compressed Gas ☐ Lab Osc. & Data Acquisition ☐ Laboratory Instruction ☐
☐ Optics ☐ Research ☐ Demo ☐ Senior Design ☐

Special Comments and/or Conditions
(To be Completed by Director. Signatures above attest to the acknowledgment by both parties.)
VERIFICATION OF RECEIPT OF:

A COPY OF THE COMPLETED ELECTROMAGNETICS LABORATORY Student Waiver Form

A completed copy of the signed Electromagnetics Laboratory Student Waiver Form has been received and is placed in my records.

__________________________
print name

__________________________  __________
Signature of Signee          Date
Laboratory Rules

1. Horseplay and unprofessional conduct in the laboratory will not be tolerated.
2. All jewelry (earings, necklaces, bracelets, etc.) must be removed.
3. Long hair must be tied back or confined by some sort of hat.
4. Loose clothing is not allowed unless covered by a laboratory coat.
5. Shoes must be worn in the laboratory (roller blades, roller skates, etc. are not allowed).
6. You are restricted from the laboratory if you are under the influence of alcohol or drugs.
7. Smoking, eating, or drinking is not allowed in the laboratory.
8. When lasers are operating, laser eyewear must be properly worn in the region behind the laser curtain. If you wear glasses, safety eyewear must completely cover the glasses. Except when stated or soldering, goggles need not be worn in the laboratory outside of the laser isolated area. Lasers with corresponding eyewear (available in lab.) are listed below:

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Goggles Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO\textsubscript{2} Laser</td>
<td>LGS CO\textsubscript{2} Laserguard Goggles (O.D. 10 at 10.600 μm)</td>
<td>2 pairs</td>
</tr>
<tr>
<td>HeNe Laser</td>
<td>Laserline goggles (O.D. 2.0 at 0.6328 μm)</td>
<td>5 pairs</td>
</tr>
<tr>
<td>Ruby Laser</td>
<td>No goggles available. Remote operation from the rf shielding room</td>
<td></td>
</tr>
<tr>
<td>Reg. lab. safety glasses</td>
<td>Req. for soldering or for viewing exp. with moving parts.</td>
<td>1 pair</td>
</tr>
</tbody>
</table>
9. Never look directly in the path of the laser beam even while wearing safety eyewear.
10. Modern lasers have built in turn on delay circuits. NEVER look directly into the laser while the source is plugged into the electrical outlet. ALWAYS unplug the power source first before looking directly into the laser head.
11. It is not known if low frequency electric and magnetic fields are a health risk. It is strongly advised that pregnant women and people who require electronic assistance (e.g. pacemakers, hearing aids, etc.) or have any other health concerns not enter the laboratory without first consulting their physician and the laboratory director. The director may require a written release from the Physician.
12. Know the location of:

<table>
<thead>
<tr>
<th>Location</th>
<th>Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Warning Light Switch</td>
<td>Reg. Lab. Safety Glasses</td>
</tr>
<tr>
<td>Phone</td>
<td>Light Switches</td>
</tr>
<tr>
<td>Incident/Accident Forms</td>
<td>Laser Safety Goggles</td>
</tr>
<tr>
<td></td>
<td>Right-To-Know Book</td>
</tr>
<tr>
<td></td>
<td>Fire Extinguisher</td>
</tr>
</tbody>
</table>
13. Solo experimentation is not to be performed by students between 6 pm and 8 am during the regular work week or on holidays or on weekends unless faculty supervision is near at hand. This may be waived only by the laboratory director.
14. Children are not allowed in to the laboratory without permission of the director for each visit.
15. Do not touch equipment you are not authorized to use. Some of the equipment are very delicate and expensive. Some of the equipment does not belong to UNLV.
16. Unless otherwise directed, do NOT disturb experimenal setups in the laboratory.
17. Always close the radio frequency shielding room by the handle.
18. Compressed flammable gases exist in the laboratory. They are properly stored and the room is properly vented. Laser exhaust (carbon monoxide; CO) is properly vented as well. Before you may use the gases, you must be properly trained in operating the gas tanks and in detecting leaks in the gas lines.
19. Laser and laser sources contain high voltage sources within. You may not open or modify these without the permission of the laboratory director.
20. Laser beams are not to extend above the height of the laser curtain.
21. Follow procedures for compressed gas usage and for laser operation.
22. Have read the posted accident/incident plan. If an accident/incident occurs, an accident/incident form must be filed as soon as possible. The director must be notified.
23. Detailed laboratory logs must be maintained each day for senior design projects and research efforts conducted by students in the laboratory. The logs must contain the following minimum requirements: name, date, time entered and left lab (details such as breaks etc, not necessary), in what capacity the laboratory was used, details of experiment or design conducted in laboratory including pictures of laboratory setup, and resources used.

**ALWAYS BE AWARE OF YOUR SURROUNDINGS. ALWAYS BE ALERT. REMEMBER SAFETY FIRST.**