

# PHYSICS 403 SYLLABUS, SPRING 2025

Professors Eugene Colla and Virginia Lorenz

	Date	Day	Activity	Comment	Note
<b>1</b>	<b>1/21</b>	<b>Tues</b>	<b>Orientation</b>	<b>About Phy403</b>	
<b>2</b>	<b>1/23</b>	<b>Thurs</b>	<b>Cycle 1-1</b>		
<b>3</b>	<b>1/28</b>	<b>Tues</b>	<b>Cycle 1-2</b>	<b>OriginPro Intro/Root</b>	
<b>4</b>	<b>1/30</b>	<b>Thurs</b>	<b>Cycle 1-3</b>	<b>Elog Comments</b>	
<b>5</b>	<b>2/04</b>	<b>Tues</b>	<b>Cycle 1-4</b>	<b>Error analysis</b>	
<b>6</b>	<b>2/06</b>	<b>Thurs</b>	<b>Cycle 1-5</b>		
<b>7</b>	<b>2/11</b>	<b>Tues</b>	<b>Cycle 1-6</b>	<b>Written Reports</b>	
<b>8</b>	<b>2/13</b>	<b>Thurs</b>	<b>Cycle 1-7</b>		
<b>9</b>	<b>2/18</b>	<b>Tues</b>	<b>Cycle 1-8</b>	<b>Ferroelectricity</b>	<b>C1-Ex1(2.19.25)</b>
<b>10</b>	<b>2/20</b>	<b>Thurs</b>	<b>Cycle 1-9</b>		
<b>11</b>	<b>2/25</b>	<b>Tues</b>	<b>Cycle 1-10</b>	<b>Oral report</b>	
<b>12</b>	<b>2/27</b>	<b>Thurs</b>	<b>Cycle 1-11</b>		
<b>13</b>	<b>3/04</b>	<b>Tues</b>	<b>Cycle 1-12</b>	<b>Superconductivity</b>	
<b>14</b>	<b>3/06</b>	<b>Thurs</b>	<b>Cycle 2-1</b>		
<b>15</b>	<b>3/11</b>	<b>Tues</b>		<b>ORALS 1</b>	
<b>16</b>	<b>3/13</b>	<b>Thurs</b>			
	<b>3/15</b>			<b>Spring Break</b>	
<b>17</b>	<b>3/25</b>	<b>Tues</b>	<b>Cycle 2-2</b>	<b>High Energy Physics</b>	<b>C1-Ex2 (3.26.25)</b>
<b>18</b>	<b>3/27</b>	<b>Thurs</b>	<b>Cycle 2-3</b>		
<b>19</b>	<b>4/01</b>	<b>Tues</b>	<b>Cycle 2-4</b>	<b>Atomic Force Microscopy</b>	
<b>20</b>	<b>4/03</b>	<b>Thurs</b>	<b>Cycle 2-5</b>		
<b>21</b>	<b>4/08</b>	<b>Tues</b>	<b>Cycle 2-6</b>	<b>Lock-in Amps and FFT</b>	
<b>22</b>	<b>4/10</b>	<b>Thurs</b>	<b>Cycle 2-7</b>		
<b>23</b>	<b>4/15</b>	<b>Tues</b>	<b>Cycle 2-8</b>	<b>Entanglement</b>	<b>C2-Ex1 (4.16.25)</b>
<b>24</b>	<b>4/17</b>	<b>Thurs</b>	<b>Cycle 2-9</b>		
<b>25</b>	<b>4/22</b>	<b>Tues</b>	<b>Cycle 2-10</b>	<b>Optical Spectroscopy</b>	
<b>26</b>	<b>4/24</b>	<b>Thurs</b>	<b>Cycle 3-11</b>		
<b>27</b>	<b>4/29</b>	<b>Tues</b>	<b>Cycle 3-12</b>	<b>Measuring Temp</b>	
<b>28</b>	<b>5/01</b>	<b>Thurs</b>		<b>Final Orals #1</b>	
<b>29</b>	<b>5/06</b>	<b>Tues</b>		<b>Final Orals #2</b>	
	<b>5/08</b>			<b>READING DAY</b>	
					<b>C2-Ex2 (5.9.25)</b>