

## BIO-407 Syllabus (Fall 2020)

<b>Week</b>	<b>Subject</b>		
<b>1</b>	The Anatomical Tradition		
<b>2</b>	Life Cycles and the Evolution of Developmental Patterns Principles of Experimental Embryology		
<b>3</b>	Genetic Core of Development		
<b>4</b>	Cell-cell Communication		
<b>5</b>	Fertilization		
<b>6</b>	Early Development in Selected Invertebrates		
<b>7</b>	The Genetics of Axis Specification in Drosophila		
<b>8</b>	Amphibians and Fish / Birds and Mammals		
<b>9</b>	The Emergence of the Ectoderm		
<b>10</b>	Neural Crest Cells and Axonal Specificity		
<b>11</b>	Paraxial and Intermediate Mesoderm		
<b>12</b>	Lateral Plate Mesoderm and the Endoderm		
<b>13</b>	Sex Determination		
<b>14</b>	Postembryonic Development		

**Textbook** : Scott F. Gilbert Developmental Biology, Sinauer Associates, Inc.