

# **BME 2105 – Introduction to Biomedical Engineering**

## **Semester A 2021/2022**

<b>Instructor</b>	Dr. SHI Peng ( <a href="mailto:pengshi@cityu.edu.hk">pengshi@cityu.edu.hk</a> )
<b>Grading</b>	10% Homework Assignments 30% Midterm Exam ( <b>week 7</b> ) 30% Group Project 30% Final Exam
<b>Topics to be covered</b>	<ol style="list-style-type: none"><li>1. Overview</li><li>2. Molecular Fundamentals</li><li>3. Genetic Engineering</li><li>4. Cell and Tissue Engineering</li><li>5. Cardiovascular System and Engineering</li><li>6. Neural Engineering</li><li>7. Immune System and Engineering</li><li>8. Biomedical Imaging</li><li>9. Technology and Cancer</li><li>10. Biomechanics and Orthopedics</li><li>11. Project presentation</li><li>12. Project presentation</li><li>13. Project presentation</li></ol>
<b>Textbook</b>	W. Mark Saltzman. Biomedical Engineering: Bridging Medicine and Technology.