# Prerequisite Course

This course is an introduction to the Python programming language for students without prior programming experience. Python is a language with a simple syntax, and a powerful set of libraries. It is an interpreted language, with a rich programming environment, including a robust debugger and profiler. While it is easy for beginners to learn, it is widely used in many scientific areas for data exploration. We cover data types, control flow, module-based programming, and graphical user interface-driven (PyCharm based) applications. The examples and problems used in this course are drawn from diverse areas such as text processing, coding game and image manipulation, and web programming.

## #2. Materials and Reference

- Handout files

## #3. Evaluation (%)

<table>
<thead>
<tr>
<th>Attendance</th>
<th>Assignment</th>
<th>Midterm</th>
<th>Final</th>
<th>Additional Evaluation</th>
<th>Attitude</th>
<th>Other</th>
<th>합계</th>
</tr>
</thead>
<tbody>
<tr>
<td>15%</td>
<td>30%</td>
<td>25%</td>
<td>30%</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

**Attendance Policy:** Students who are absent for over 1/3 of the class will receive a grade of 'F' or 'U' for the course. (Exceptions can be made when the cause of absence is deemed unavoidable by the course instructor.)

**Other Remarks:**

## #4. Lecture Plan

- Session 1 (7/3) Environment (PyCham) setup and Introduction
- Session 2 (7/4) Data and Expression
- Session 3 (7/5) Control Structures
- Session 4 (7/6) Lists
  -(7/6) Programming assignment 1 (due 1-week)
- Session 5 (7/10) Lists and Tuples
- Session 6 (7/11) Review and Practice
- Session 7 (7/12) Mid. Exam

- Session 8 (7/13) Dictionaries and Sets
- Session 9 (7/17) Functions
  -(7/17) Programming assignment 2 (due 1-week)

- Session 10 (7/18) Modular Design
- Session 11 (7/19) Recursion
  -(7/19) Programming assignment 3 (due 1-week)

- Session 12 (7/20) Object-Oriented Programming1
- Session 13 (7/24) Object-Oriented Programming2
- Session 14 (7/25) Review and Practice
- Session 15 (7/26) Final Exam
<table>
<thead>
<tr>
<th>5. Additional Notes for Students</th>
<th>Personal Notebook is required to setup the environment for programming</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Assistance for Students with Disabilities</td>
<td></td>
</tr>
</tbody>
</table>
| **Class** | ○ Visual Impairment: Make textbooks (digital textbook, braille textbook, enlarged textbook etc.), Allow note takers  
○ Physical Disability: Make textbooks (digital textbook), Allow note takers and assistants  
○ Hearing Impairment: Allow note takers and translators, Allow lecture recording  
○ Health Impairment: Excuse absence due to health problems, Allow note takers  
○ Learning Disability: Allow note takers  
○ Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors |
| **Assignment & Evaluation** | ○ Visual Impairment / Physical Disability / Hearing Impairment / Health Impairment / Learning Disability: Extend assignment deadlines, Offer alternate assignment submission and response method, Extend testing period, Offer alternate testing method, Offer different testing room  
○ Intellectual Disability / Autism Spectrum Disorder: Offer individualized assignments and alternative evaluations |
| **Others** | Students who take this course can get appropriate level of support service including the support listed above depending on the students’ individual characteristics and needs through consultation with professors and the Support Center for Students with Disabilities. If you have any questions concerning support service for students with disabilities you can contact Professor *** (Contact Information) or Support Center for Students with Disabilities (02-880-8787). |