Summary
We will define the concept of personalized health, describe the underlying technologies, the technological, legal and ethical challenges that the field faces today, and how they are being met.

Content
In line with the Health 2030 Initiative (https://health2030.ch/), this course aims to be multidisciplinary, to tackle different aspects of personalized health. Under supervision of a PI to coach you, you will study a specific problem, evaluating its basis and proposing solutions. The output will be a short report and an oral defense of your interdisciplinary project.

Learning Prerequisites
Required courses
None

Learning Outcomes
By the end of the course, the student must be able to:
• Distinguish the tenents of personalized health
• Discuss new technologies within the context of personalized health

Transversal skills
• Write a scientific or technical report.
• Make an oral presentation.
• Take feedback (critique) and respond in an appropriate manner.
• Assess progress against the plan, and adapt the plan as appropriate.
• Collect data.
• Use a work methodology appropriate to the task.
• Continue to work through difficulties or initial failure to find optimal solutions.
• Use both general and domain specific IT resources and tools

Teaching methods
Ex-cathedra lectures, discussions, coaching, preparation of a project, oral defense of the project.
Expected student activities
Attend all the lectures
Preparation of project
Oral defense of project
Active participation to discussions
Work in small groups

Assessment methods
Written: A mid-term individual assessment based on the lectures.
Oral: Presentation of a project: quality of slides, clarity and content of presentation, ability to answer questions.
Project: Relevance to personalized health, explanation of relevant background, explanation of research strategy. Multidisciplinary approach.

Supervision
Office hours No
Assistants Yes
Others Coach and contact persons for project

Resources
Bibliography
No prerequisite

Notes/Handbook
When possible, copies of the slides will be provided

Websites
• https://health2030.ch/

Moodle Link
• https://go.epfl.ch/BIO-491