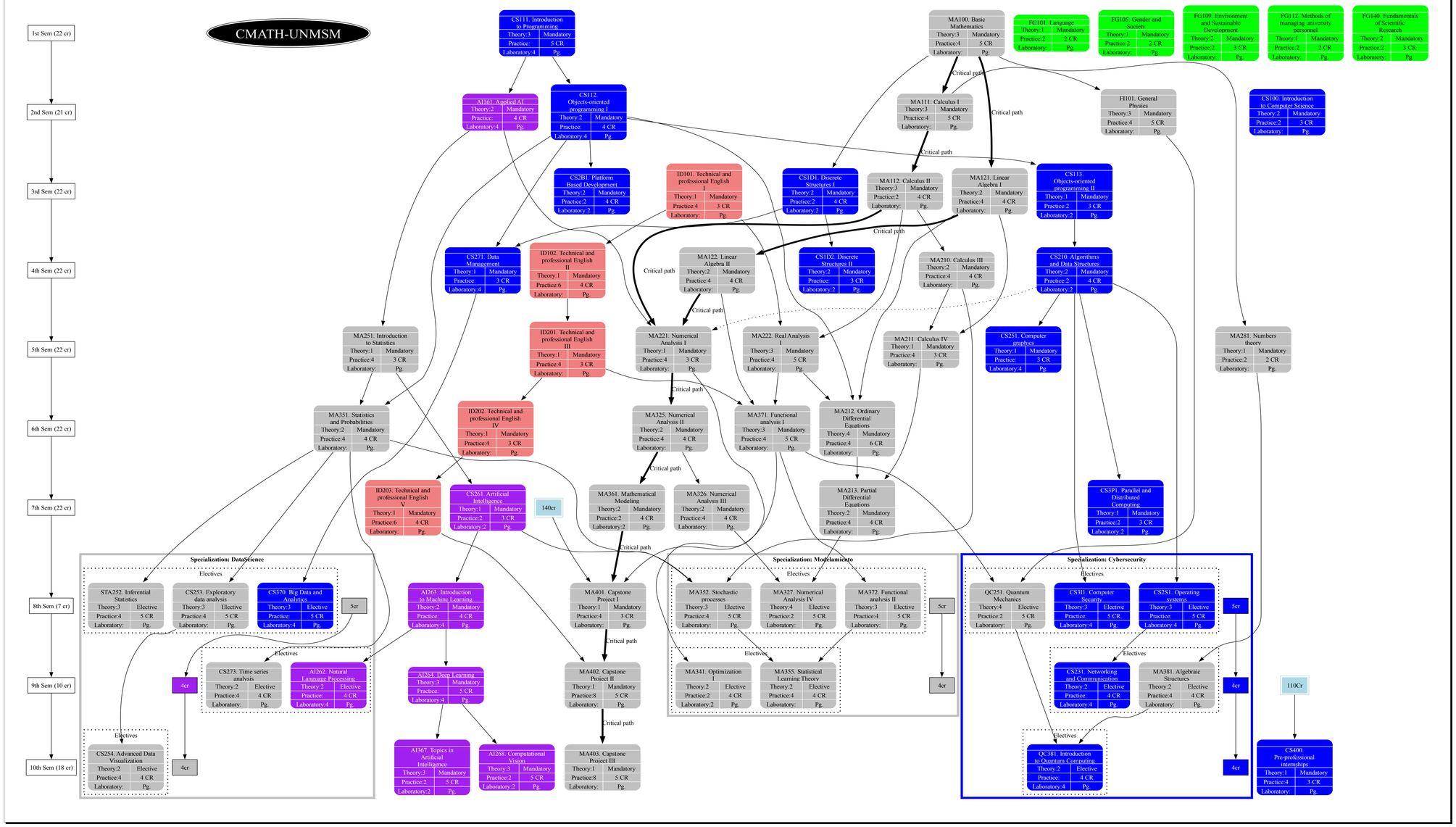
# School of Scientific Computing https://matematicas.unmsm.edu.pe/eap-computacion-cientifica.html

**Mission:** To be the comprehensive, high-level national reference in Mathematics, Statistics, Scientific Computing, and Operations Research, at both the Graduate and Undergraduate levels, contributing to the preservation of Peru's cultural diversity and its scientific and technological progress. Its members are distinguished by the application of the scientific method for the development of knowledge and the solution of the country's problems, while respecting and protecting its environment.

**Definition:** The professional profile of this professional program can be better understood from figures on the right side. This professional has Computing as the center of his studies. That is, it has computating as an end and not as a means. According to the definition of this area, this professional is called directly to be a promoter of the development of new computational techniques that can be useful at local, national and international level.

Our professional profile is aimed at generating jobs through permanent innovation. Our professional training has three fundamental pillars: a content according to ACM/ IEEE-CS Computing Curricula CC2020 and CS2023, a marked orientation to innovation and human oriented skills.







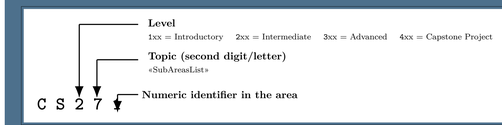
## Educational objectives

1. Meet and exceed workplace expectations.
2. Perform as a member or leader of specialized or multidisciplinary teams.
3. Propose solutions to the workplace context based on improving the state of the art.
4. Effectively communicate technological proposals to diverse levels and fields.
5. Autonomously update and adapt to new knowledge in the field and other work environments.
6. Understand the social, ethical, legal, environmental, and economic impact of technological creations.

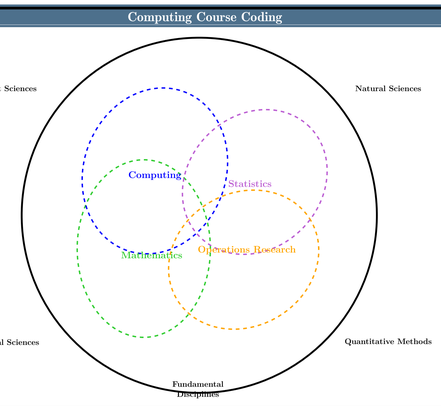
## Definition of Learning Outcomes

**Level 1: Familiarity:** The student **understands** basic concepts. Answers: **"What is this?"**
**Level 2: Usage:** The student **applies** concepts practically. Answers: **"How to use this?"**
**Level 3: Assessment:** The student **evaluates and justifies** approaches. Answers: **"Why this method?"**

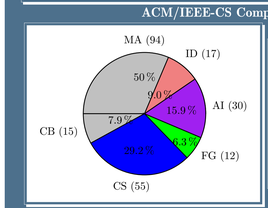
**Generated by Ernesto Cuadros-Vargas (ecuadros@spc.org.pe), Peruvian Computer Society, based on the ACM/IEEE-CS *Computing Curricula***

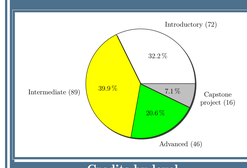



### Computing Course Coding

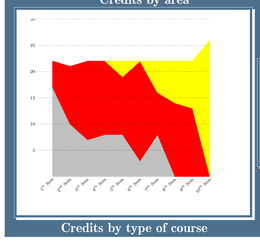



### ACM/IEEE-CS Computing Curricula 2020




### Credits by area




### Credits by type of course

### Distribution by areas

| | General Estudies | Specific | Specialization | |
|---|---|---|---|---|
| 1st. Sem | 17 | 5 | | 22 |
| 2nd. Sem | 10 | 11 | | 21 |
| 3rd. Sem | 7 | 15 | | 22 |
| 4th. Sem | 8 | 14 | | 22 |
| 5th. Sem | 8 | 11 | 3 | 22 |
| 6th. Sem | 3 | 13 | | 22 |
| 7th. Sem | 8 | 8 | 6 | 22 |
| 8th. Sem | | 11 | 11 | 22 |
| 9th. Sem | 0 | 13 | 9 | 22 |
| 10th. Sem | | | 26 | 26 |
| Total | 61 | 110 | 55 | 233 |
| | 27.3 % | 49.3 % | 23.3 % | |