

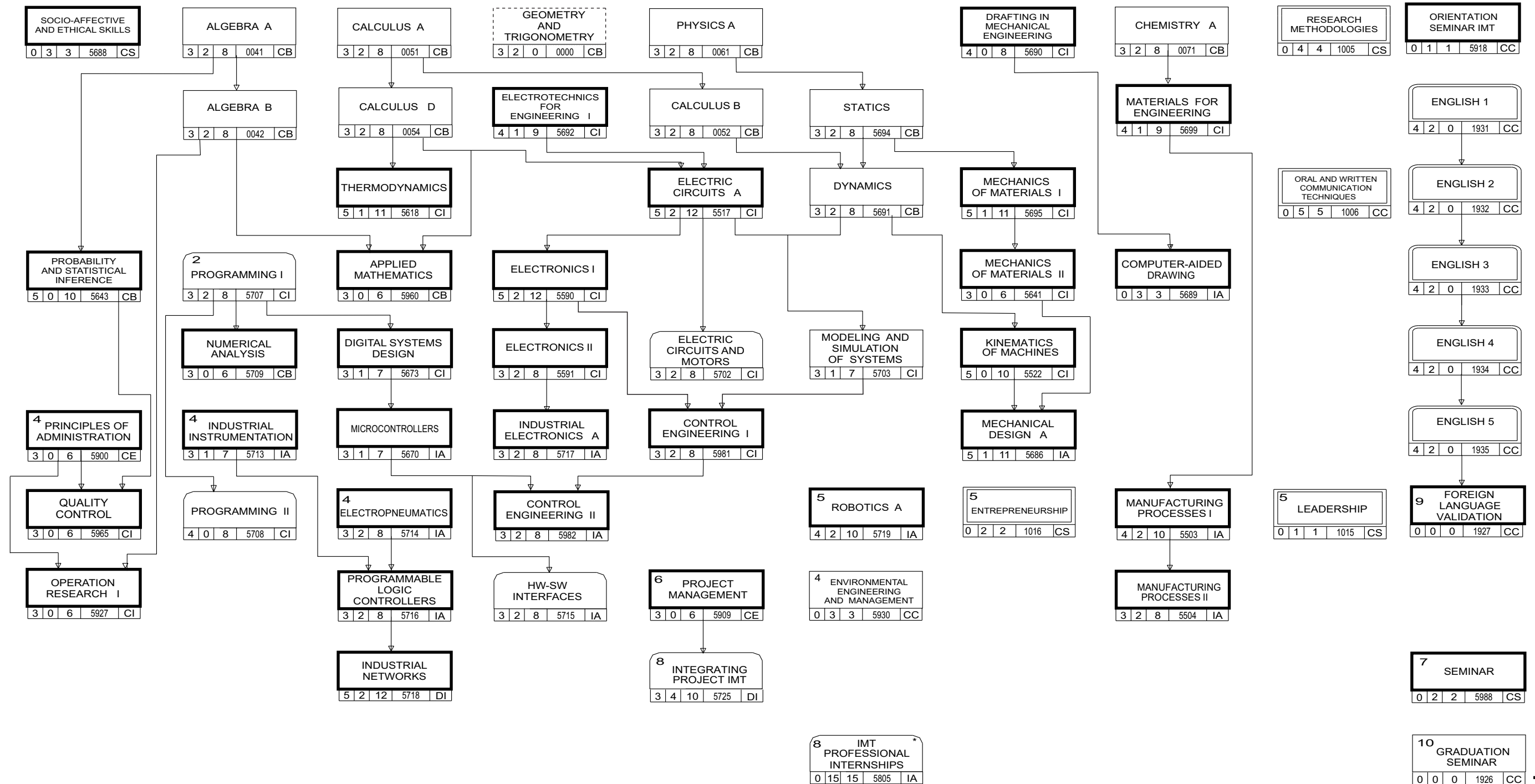
MECHATRONICS ENGINEERING



CURRICULUM JUNE 2021

LEVELS

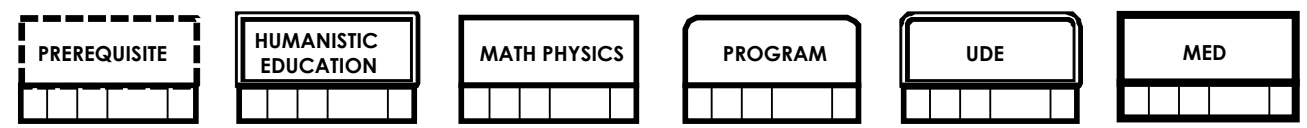
I
II
III
IV
V
VI
VII
VIII
IX
X



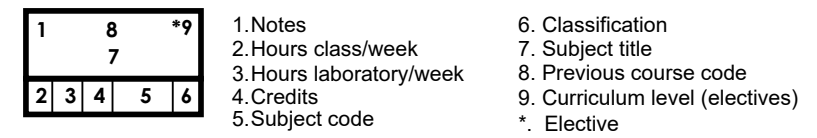
48
50
47
45
46
47
50
42
24
0
399

REQUIRED CREDITS

CLASSIFICATION COLLEGE OF ENGINEERING



NOMENCLATURE



CLASSIFICATION

- CB. Basic science and mathematics
- CI. Engineering science (basic engineering)
- IA. Applied engineering
- DI. Engineering design
- CS. Social sciences and humanities
- CE. Economic and administrative sciences
- CC. Complementary courses

MECHATRONICS ENGINEERING



CURRICULUM
JUNE 2021

ELECTIVE SUBJECTS:

BRANCH OF MECHANICAL

5686 VIII MECHANICAL DESIGN B 4 1 9 5687 CI	5504 IX COMPUTERIZED NUMERICAL CONTROL 3 2 8 5631 IA	7 IX COMPUTER AIDED ENGINEERING 3 2 8 5800 IA	5686 VIII FINITE ELEMENT METHODS 4 1 9 5613 IA
---	--	---	--

BRANCH OF MECHATRONICS INTEGRATION

5719 VIII ROBOTICS B 3 2 8 5723 IA	5719 IX COMPUTER INTEGRATED MANUFACTURING 3 2 8 5704 IA	7 X IMAGE PROCESSING AND COMPUTER VISION 5 2 12 5721 IA	7 X ARTIFICIAL INTELLIGENCE 5 2 12 5722 IA
--	---	---	--

BRANCH OF ADMINISTRATION AND QUALITY

6 IX PERSONNEL MANAGEMENT 3 0 6 5902 CE	5965 X QUALITY MANAGEMENT SYSTEMS AND CONTINUOUS IMPROVEMENT 3 0 6 5975 CE
---	--

BRANCH OF COMPUTER

III INTRODUCTION TO ALGORITHMS 3 2 8 5706 CB	11 VIII PARALLEL PROGRAMMING 3 0 6 5727 IA
--	--

BRANCH OF HUMANITIES

V ART. CULTURE AND HUMANITIES I 0 2 2 1012 CS	VIII ART. CULTURE AND HUMANITIES II 0 2 2 1013 CS	ARTISTIC, SPORTS OR OUTREACH ACTIVITIES 0 2 2 1014 CS
---	---	--

DIVERSE THEMES

12 VI LEARNING ACTIVITIES 0 2 2 1916 CC	13 VII MOBILITY 3 0 6 1908 CC
---	---

OTHERS

0061 II PHYSICS D 2 2 6 0064 CB	5673, 5591 VIII DIGITAL SIGNALS PROCESING 3 2 8 5726 IA	5927 IX PRODUCTION SYSTEMS 3 2 8 5647 CE	6 X INDUSTRIAL SAFETY AND HEALTH 3 0 6 5972 CC	6 X ELECTRICAL DIAGRAMS 0 3 3 5607 IA
---	---	--	--	---

PROGRAM EDUCATIONAL OBJECTIVES

It is expected that a few years after starting his professional career, the graduates of the Mechatronics Engineering program of the UASLP will be able to:

- Work in a field related to Mechatronics showing domain in theoretical and practical aspects for the solution of problems in the field of Engineering.
- Assume leadership roles, communicate effectively, participate in multidisciplinary teams and in decision-making.
- Recognize the social responsibility in the exercise of their profession.
- Maintain a permanent interest in the development and improvement of their professional skills.

ACADEMICAL NOTES

1. This subject can only be coursed approving 45 credits.
2. This subject can only be coursed approving 90 credits.
3. This subject can only be coursed approving 135 credits.
4. This subject can only be coursed approving 180 credits.
5. This subject can only be coursed approving 225 credits.
6. This subject can only be coursed approving 315 credits.
7. This subject can only be coursed approving 360 credits.
8. Professional Practices IMT, requires the approval of 315 credits and requires the accreditation of the training spaces from level I to level VI, it can be coursed between levels VII and X, it cannot be enrolled simultaneously with the Integrating Project IMT.
9. This curricular space will be accredited by applying the evaluation test of english level proficiency, defined by the Technique Council of the Faculty.
10. This subject will be accredited by applying of the Examen General de Egreso de Licenciatura (EGEL-IMECATRO). This test should be applied in the last semester of the career.
11. This subject can only be coursed approving 270 credits.
12. This block represents 10 subjects named Learning Activities I, II, III, IV, V, VI, VIII, IX and X with consecutive codes from 1916 to 1925.
13. This block represents 8 subjects named Mobility I, II, III, IV, V, VI, VIII, with consecutive codes from 1980 to 195.
14. To obtain the internship all the 450 credits including required and elective credits must be approved.