

## List of courses that can not be chosen as electives for students from the major Applied Physics

### DISCLAIMER

This list is not exhaustive and subject to change, based on new insights, new courses and/or new course content of Bachelor College courses. Students should ascertain that study components in the study package do not have overlap in content, e.g. by checking the overlap tables of the programs covering the electives of choice or by checking the course descriptions of an elective in OSIRIS Course Catalogue. In case of doubts, contact the study program committee. Before you receive your diploma, the Examination Committee will assess your study program for depth, overlap and coherence. You can submit your study program to the Examination Committee through PlanApp once you have completed 90 ECTS and have planned all 180 ECTS.

Course	Short name
2DBI00	Linear algebra and applications
2DD40	Mathematics 1
2DE20	Mathematics 1
4CB00	Signals and Systems
4DA00	Dynamica
4EB00	Thermodynamics
4PB00	Heat and flow
4RA10	Introduction transport phenomena
5ASCO	Dynamics for Automotive applications
5EPA0	Electromagnetics I
5ESB0	Systems
5ESE0	Signal processing basics (Signals I)
6A3X0	Advanced calculus for ST
6A4X0	Introduction to chemical bonding and thermodynamics
6A6X0	Linear Algebra & Statistics
6E8X0	Process dynamics and control
6P1X0	Physical Transport Phenomena
8MB00	Continuum mechanics
8NC00	Electromagnetism and optics
8VB00	Transport Physics
8VB40	Systems in time and space
JBM060	Advanced Mathematics 1 for Data Science
JBM070 & JBM075	Linear Algebra for Data Science
JBM080	Advanced Mathematics 2 for Data Science

### **Additional conditions**

- If you choose the electives 2WA30 Analysis 1 and 2WA40 Analysis 2, you should replace the major course 2DBN10 Advanced Calculus (generations 2015-2018) or 2DN50 Advanced Calculus (2012-2014) by an additional elective.
- If you choose the electives 2WF20 Linear Algebra 1 and 2WF30 Linear algebra 2, you should replace the major course 2DBN00 Linear algebra (generations 2015 and later) or 2DN60 Linear algebra and vector calculus (generations 2012 – 2014)
- The courses 3B3X0P Experimental physics 3 and 3BYX0P CBL Systems and control project are pilot courses. Students that will be participating in the pilot take these courses instead of the regular AP major courses 3B3X0 Experimental physics 3 and 3BYX0 Signals and systems. Therefore, these subjects cannot be chosen as electives.