

List of courses that cannot be taken as electives by students in the Mechanical engineering bachelor BR 2024-2025 (curriculum start year 2022-2023 and before) **version 29-08-2024**

NOTE: This list is not exhaustive. We advise students to check the course description in Osiris and the overlap in content with major courses. In case of doubts, always contact your Academic Advisor.

The examination committee will check your study package when you submit your program through the PlanApp. This can be done when you completed 90 ECTS and have planned 180 ECTS.

Excluded Electives		Major courses	
Code	Course name	Code	Course name / Remarks
0LVX10	ITEC ethics	OSAB0	USE Base
2DBA0	Matrices and Differential Equations	4DA00	Dynamics
2DBI00/2DRR00	Linear algebra and applications	4DA00	Dynamics
		4CB00	Signals and Systems
2DBN00	Linear algebra	4DA00	Dynamics
2DE20/2DD40/ 5EZA0	Mathematics 1	4DA00	Dynamics
5EZB0	Mathematics 2	4DA00	Dynamics
2DI90	Probability & statistics	4DC10	Analysis of production systems
2DL00	Basic mathematics evening course	...	Only for premaster students
2DL10	Premaster calculus and probability	...	Only for premaster students
2DL40	Advanced calculus I	-	Only for premaster students
2DL50	Advanced calculus II	-	Only for premaster students
2DL60	Linear algebra	-	Only for premaster students
2DL70	Probability & statistics	-	Only for premaster students
2DL15	Calculus & probability theory premaster IM	-	Only for premaster students
2DM80	Biostatistics and linear algebra	4DA00	Dynamics
2WA70/2MBC20	Ordinary differential equations	4DA00	Dynamics
2WF20/2MBA20	Linear Algebra 1	4DA00	Dynamics
2WF30/2MBA50	Linear Algebra 2	4DA00	Dynamics
2WN20/2MBC10	Introduction to numerical analysis	4MC10	Computational mechanics
3AMX0	Mechanics	4DA00	Dynamics
3A1X0	Experimental physics I	4GA00	Intr. mech. Eng. and truss structures
3BTX0	Thermal Physics	4EB00	Thermodynamics
3CTX0	Physics of transport phenomena	4PB00	Heat and flow
3PHYS	Physics for Engineers	3NBB0	Applied natural sciences
31LAL	Linear algebra	4DA00	Dynamics
		4CB00	Signals and Systems
31MCA	Multivariable Calculus	4RA10	Introduction transport phenomena
31MEC	Mechanics	4RA00	Mechanics
3BYX0P	systems and control project	4GB20	robot arm
4PB00oNL	Heat and flow online	4PB00	Heat and flow
4CB40	Control of manufacturing systems	4CC40/4TC00	Design principles & Analysis of production systems/ Model-based systems engineering
4CBLA10	Launching mechanism	4GA10	launching mechanism
4CBLA20	Multiped robot	4GA40	Multiped Robot
4CBLA30	Energy storage and transport	4GB00	Modeling of time dependent systems
4CBLB00	Solar Heat system	4GA50	Solar heat system
4CBLB10	Sustainable Fuels: Plan A or B?	4GB10	Combustion engine
4CBLB20	Control of a flexible robot system	4GB20	Robotarm
4CBLW00	Multidisciplinary CBL	4WBB0	Engineering Design
4CA20	signal and systems	4CB00	signal and systems
4CBLA00	Intro mech	4GA00	Intro mech
4AC10	Principles of design and programming	4CC30/4CC40	Design principles
4GA40	Peristaltic pump	4GA20	ACDA
		4GA30	propeller
4GA50	Solar Heat	4GA20	ACDA
		4GA30	propeller

4RA10	Introduction transport phenomena	3NCB0	Applied Physical Sciences flows Prohibited for generations 2016 and earlier
5ASCO	Dynamics in Automotive applications	4DA00	Dynamics
5ESB0	systems	4DB00	signals and systems

List of courses that cannot be taken as electives by students in the Mechanical engineering bachelor AR 2024-2025 (curriculum start year 2023-2024 and after) **version 14-06-2024**

NOTE: This list is not exhaustive. We advise students to check the course description in Osiris and the overlap in content with core courses. In case of doubts, always contact your Academic Advisor. The examination committee will check your study package when you submit your program through the PlanApp. This can be done when you completed 90 ECTS and have planned 180 ECTS.

Excluded Electives		Overlap course	
Code	Course name	Code	Course name
0SAB0	USE Base	0LVX10	ITEC-Ethics of Technology and Engineering
JBG000	Data Science Ethics	0LVX10	ITEC-Ethics of Technology and Engineering
0LVX30	ITEC-Ethics of Technology and Engineering	0LVX10	ITEC-Ethics of Technology and Engineering
0LVX20	ITEC-Impact of Technology : Engineering for Society	0LVX40	ITEC-Impact of Technology : Engineering for Society
2DBA0	Matrices and Differential Equations	4DA00	Dynamics
2DBI00	Linear algebra and applications	4DA00	Dynamics
2DD40	Mathematics 1	4DA00	Dynamics
2WN20	Introduction to numerical analysis	4MC10	Computational mechanics
31LAL	Linear Algebra	4DA00	Dynamics
31MCA	Multivariable calculus	4RA10	Introduction transport phenomena
31MEC	Mechanics	4DA00	Dynamics
31PAP	Programming for Applied Physics	4CA10	Principles of design and programming
32TDY	Thermodynamics	4EB00	Thermodynamics
32VAN	Vector Analysis	4CA20	signal and systems
32PTP	Physics of transport phenomena	4RA10	Introduction transport phenomena
3CTX0	Physics of transport phenomena	4PB00	Heat and flow
4CB00	signal and systems	4CA20	signal and systems
4GA00	Intro mech	4CBLA00	Intro mech
4GA10	launching mechanism	4CBLA10	Launching mechanism
4GA40	Multiped Robot	4CBLA20	Multiped robot
4GB00	Modeling of time dependent systems	4CBLA30	Energy storage and transport
4GB10	Combustion Engine	4CBLB10	Sustainable fuels: Plan A or B?
4GA50*	Solar heat System	4CBLB00	Solar heat system
4WBB0	Engineering design	4CBLW00	Multidisciplinary CBL
4GC10*	Mechanical design project	4CBLC30	Mechanical design project
4GC00*	Computer aided engineering	4CBLC2	Computer aided engineering
4PB00oNL	Heat and flow online	4PB00	Heat and flow
6BBR03	Calculus for CE&C	2WBB0	Calculus
6BBR04	Intro. to chem.bonding & thermodynamics	4EB00	Thermodynamics
6BBR05	Advanced calculus for ST	4DA00	Dynamics
6BBR06	Programming and linear algebra	4CA10; 4DA00	Principles of design and programming; Dynamics

6BER03	Numerical methods	4MC10	Computational mechanics
6BER07	Process dynamics and control	4CBLB20	Control of a flexible robot system
6BMR03	Materials science 1	4MA00	Structure and properties of materials
6BMR06	Materials science 2	4MA00	Structure and properties of materials
6BPR01	Physical Transport Phenomena 1	4PB00; 4RA10	Heat and flow; Introduction transport phenomena
6BPR02	Physical Transport Phenomena 2	4PB00; 4RA10	Heat and flow; Introduction transport phenomena
6M4X0	Materials science	4MA00	Structure and properties of materials
7PPX0	Dimensioneren van constructies	4RA00	Mechanics
8BA060	Linear Algebra & multivariable calculus	4DA00	Dynamics
8BA090	Biomechanics	4MB00	Solid mechanics
8BA110	Material Science	4MA00	Structure and properties of materials
8BB010	Dynamic Systems	4DA00	Dynamics
8BB040	Thermodynamics	4EB00	Thermodynamics
8BB060	Flow and Diffusion	4PB00	Heat and Flow
8BB070	Numerical Analysis of Continua	4MC10	Computational mechanics
6BPR04	Chemical Reactors	4BC00	Chemically Reacting Flows

*only one of these two courses can be Chosen as an elective