



2025

Summer School with University of Minnesota, USA

on

Mechanisms in Mechatronics

11 – 24 August 2025



2 weeks on University of Minnesota Twin Cities campus, USA

Fact Sheet Summer School 2025

Webpage to Summer School will follow soon

Dates and Location	<p>11 August – 24 August 2025</p> <p>The Summer School “Mechanisms in Mechatronics” will last two weeks and will take place at the campus of University of Minnesota Twin Cities, Minneapolis, Minnesota. Excursions and cultural activities are integral part of the programme.</p> <p>If you plan a private trip back-to-back to the Summer School in the USA, this is possible.</p>
Student Group	<p>ZHAW SoE students solely will participate in the 2 weeks programme. UMinnesota students won't be involved in the programme as it will be summer break on campus.</p>
Study Programme and Term Level	<p>SoE students from the following study programmes are eligible to participate: Aviation (AV), Electrical Engineering (ET), Mechanical Engineering (MT), Systems Engineering (ST), Mobility Science (MO), Engineering and Management (WI)</p> <p>Eligible term levels: Students can participate as of completed 1st year/2nd semester (full-time studies) and 2nd year/4th semester (part-time studies).</p>
Prerequisites	<p>To participate you need to master the basics in statics and dynamics.</p> <p>English Level B2 is compulsory.</p>
Content of the Programme	<p>Mechanisms are mechanical devices that transfer force and motion from a source to an output. The summer school will cover these concepts in its application to mechatronics systems.</p> <p>Participants will learn:</p> <ul style="list-style-type: none"> - Kinematic analysis and synthesis theory in a design context, - Apply graphical and analytical methods to analyze and design mechanisms to create arbitrary motion, - Use software tools for detailed linkage synthesis - Design and construct a working mechanism in small teams. <p>The University of Minnesota has a particular expertise in this field and one of the world leading scientists, Prof Arthur Erdman, still teaches at UMinnesota.</p>
ECTS-Credits	<p>4 ECTS will be awarded for the summer school.</p> <p>The credits can be booked into the elective modules group (WPFM) of semester 5th (full-time studies), or 7th semester (part-time studies). Detailed information to which groups the credits can be booked, will follow.</p> <p>Students can use the earned credits to account for the International Profile. This is eligible for all study programmes eligible for the summer school.</p> <p>The credits are credited for the academic year following the Summer School, HS 25/26.</p>

Costs (depending on the number of participants)	CHF 1'700 – 1'900.- CHF 1'000 - 1'300.- CHF 2'700 – 3'200.-	Summer School fee includes accommodation and breakfast at UMinnesota, lectures and excursions. Individual flight costs, participants book and pay the flights individually. Total (estimated)
Accommodation USA	In a hotel on campus at the University of Minnesota (details will follow). Meals will be taken at restaurants and snack shops and need to be covered individually. UMinnesota cafeterias will be closed due to summer break.	
Information session	Online information session on Thursday, 5th December 2024, 17:45, on MS Teams.	
Registration	<ul style="list-style-type: none"> • Registration for the Summer School until January 31st 2025, by e-mail to international.engineering@zhaw.ch • You will find the registration form on the intranet https://intra.zhaw.ch/departemente/school-of-engineering/international/summer-schools 	

