

# ATLANTIS Program Overview

## Double-degree program between OSU & Universität des Saarlandes (UdS):

- One of only a small number of dual US/German undergraduate programs nationwide, and the only one offering two degrees (Mechanical Engineering BS from OSU, BS Materials Science from UdS) and a minor in German
- All coursework in the native language (i.e., German in Germany!)
- The College of Liberal Arts offers an intensive technical German course sequence (GER 399 German for Engineers) to prepare prospective students. If you don't know German, it's OK. (But you should start your German studies right away!)
- Originally funded jointly by US Department of Education and the EU European Commission
- **A five-year program (for 2 degrees!)**: three years at OSU, 4<sup>th</sup> year in Germany, 5<sup>th</sup> year at OSU
- **Students pay tuition only to the home university.** Your financial aid is unaffected.

## Admission requirements:

- Only students who have completed the first 3 years of the OSU ME curriculum are eligible.
- A minimum level of German language competency is required. Competency is assessed by CLA German language faculty.
- You must achieve at least a B in MATS 321 and MATS 322 by winter of your Junior year.
- Your cumulative GPA (institutional) must be 3.2 or higher.
- You must submit names and contact information for three references upon request.

## Student Involvement:

Academic Year	OSU Students to Sweden	OSU Students to Germany	EU Students to OSU
2007-08	Planning, recruiting, coordination year		
2008-09	3	0	0
2009-10	7	3	1
2010-11	3	6	3
2011-12	9	3	0
2012-13	--	6	3
2013-14	--	1	5
2014-15	--	3	4
2015-16	--	7	0
2016-17	--	5	1
2017-18	--	4	3
2018-19	--	6	1
2019-20	--	5	4
2020-21	--	0 (COVID)	0
2021-22	--	5	3
2022-23	--	1	1
2023-24	--	3	0
2024-25	--	4	0

*ATLANTIS has proven to be a highly successful program from the perspective of the students involved and their academic performance.*

# ATLANTIS Program Overview January 2025

## Cost estimates

OSU GO Education Abroad Program Cost Worksheet FWS/Su 2024 (202501-202600) Estimate for Financial Aid		
Program Name:	ATLANTIS Program - Saarland University Exchange/Double Degree Program	
Program Provider:	College of Engineering	
Program Site (City & Country):	Saarbrucken, Germany	
Program Start & End Dates:	01 September 2024 - 15 September 2025	
OSU Program Term(s):	Fall 2024, Winter 2025, Spring 2025, Summer 2025 (DZ)	
Estimated Program Costs (eligible for Financial Aid):		
Description of Cost	Source Reference (Website URL, Program PDF, etc.)	Estimated Cost
Program Fee*	<a href="https://www.uni-saarland.de/en/study/current/record-data/fees.html">https://www.uni-saarland.de/en/study/current/record-data/fees.html</a>	\$ 15,127.00
Housing (if not included in Program Fee)	<a href="https://www.uni-saarland.de/en/global/welcome-center/accommodation/private-sector.html">https://www.uni-saarland.de/en/global/welcome-center/accommodation/private-sector.html</a>	\$ 3,500.00
Meals (if not included in Program Fee)	<a href="https://www.uni-saarland.de/en/global/welcome-center/home.html">https://www.uni-saarland.de/en/global/welcome-center/home.html</a>	\$ 5,500.00
Accident & Sickness Insurance** (if not included in Program Fee)	<a href="https://www.uni-saarland.de/en/global/welcome-center/first-steps/insurance.htm">https://www.uni-saarland.de/en/global/welcome-center/first-steps/insurance.htm</a>	\$ 1,760.00
International Airfare	2 round trips, estimated	\$ 3,000.00
Passport	<a href="https://passportusa.org/passports/fees">https://passportusa.org/passports/fees</a>	\$ 175.00
Visa		\$ -
Textbooks & Course Materials	host institution	\$ 1,500.00
Transportation Local to Program Site (train, bus, etc.)	<a href="https://www.uni-saarland.de/en/global/welcome-center/first-steps/arrival.html">https://www.uni-saarland.de/en/global/welcome-center/first-steps/arrival.html</a>	\$ 200.00
Immunizations	<a href="https://studenthealth.oregonstate.edu/general/fees-services">https://studenthealth.oregonstate.edu/general/fees-services</a>	\$ 166.00
Misc. Expenses (phone, laundry, internet, etc.)	<a href="https://www.uni-saarland.de/en/global/welcome-center/home.html">https://www.uni-saarland.de/en/global/welcome-center/home.html</a>	\$ 2,500.00
Total Estimated Program Costs:		\$ 33,428.00

\* 3 terms of OSU Tuition and Fees at \$14,487, plus \$640 program fee from Saarbrücken

\*\* 380 days of OSU insurance at \$760, plus \$1000 insurance fee from Saarbrücken

- Budget information is an estimate based on information from the universities and current rates of exchange. All values are subject to change.
- Students must purchase health insurance while overseas in addition to OSU GO insurance. Costs of this insurance are included in the budgets above.
- The academic year in Germany is not the same as the academic year in OSU. Students will start on September 1 with a one-month intensive German language class at Saarlandes University. Classes begin in October and the last exams are not complete until the following September.
- From: [http://financialaid.oregonstate.edu/review\\_costofattendance](http://financialaid.oregonstate.edu/review_costofattendance)
- OSU estimated costs for resident undergraduate on campus (minus tuition and fees) = \$18,711
- 1 credit each summer term (before and after the year abroad) is NOT assessed tuition. It's a placeholder to let OSU know you are abroad.

## ATLANTIS Program Overview January 2025

### 5-Year Program of Study for OSU Students to UdS-OSU ATLANTIS Program

General Timeline	
1 <sup>st</sup> & 2 <sup>nd</sup> year at OSU	ME undergrads interested in ATLANTIS, that are not already proficient in German, should register for GER 399 <i>as soon as possible</i> . New cohorts begin fall and winter quarters.
3 <sup>rd</sup> year at OSU	Take ME curriculum, but you must complete MATS 321 & 322 with a B or better by winter quarter
late August between 3 <sup>rd</sup> and 4 <sup>th</sup> year	Arrive in Saarbrücken
September 4 <sup>th</sup> year	5-week German language course at UdS
October	Winter semester begins at UdS
February	Exam month at UdS
March	Spring break!
Early April	Summer semester classes begin at UdS
August	Exam month at UdS
August/September	Return to Corvallis for 5 <sup>th</sup> year at OSU
5 <sup>th</sup> year	Complete final year of the ME program at OSU

### ATLANTIS Curriculum

ME student interested in ATLANTIS simply follow the ME curriculum (with MATS 322) in addition to taking GER 399 if you need to learn German or improve your proficiency. The current OSU ME BS requirement are available at: <https://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/mechanical-engineering-bs-hbs/#requirements-text>

In 1<sup>st</sup> and 2<sup>nd</sup> years at OSU, follow the ME curriculum and take GER 399.

In your 3<sup>rd</sup> year, you must complete MATS 322 with a B or better by winter quarter (as an option). Note: MATS 321 is a prerequisite for 322.

Third Year		
<a href="#">ENGR 390</a>	ENGINEERING ECONOMY	3
<a href="#">MATS 321</a>	INTRODUCTION TO MATERIALS SCIENCE	4
<a href="#">ME 203</a>	COMPUTATIONAL METHODS FOR ENGINEERING	3
<a href="#">ME 217</a>	MECHANICAL ENGINEERING DYNAMICS	4
<a href="#">ME 310</a>	INTRODUCTION TO THERMODYNAMICS	4
<a href="#">ME 316</a>	MECHANICS OF MATERIALS	3
<a href="#">ME 330</a>	INTRODUCTION TO FLUID MECHANICS AND HEAT TRANSFER	4
<a href="#">ME 373</a>	MECHANICAL ENGINEERING METHODS	4
<a href="#">ME 382</a>	INTRODUCTION TO DESIGN	4
Option Courses		12
*Difference, Power, & Discrimination		3
<b>Credits</b>		<b>48</b>

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## ATLANTIS Curriculum (continued)

Your 4<sup>th</sup> year will be at UdS. Below is an **example** of the UdS Materials Science curriculum from an ATLANTIS student in AY 2023-24. As a whole, the required materials science courses will satisfy all restricted Analysis electives for OSU Mechanical Engineers.

<i>Universität des Saarlandes course title</i>	<i>OSU course title</i>
Sprachkurs: Deutsch als Fremdsprache (Niveau A2.1)	GER: Conversation: German as a Foreign Language (Level A2.1)
<b><i>Fall</i></b>	
Fertigungstechnik I (Technologie des Maschinenbaus)	ME: Manufacturing Technology
Glas und Keramik Grundlagen	ME: Introduction to Glass and Ceramic Materials
Polymerwerkstoff I	ME: Polymers I
Mechanische Eigenschaften/ Konstitutionslehre	ME: Mechanical Properties
<b><i>Summer</i></b>	
Methodik	ME: Manufacturing Methodology
Festkörper- und Werkstoffephysik für Ingenieure	ME: Solid State Physics for Engineers
Einführung in die Funktionswerkstoffe	ME: Introduction to Functional Materials
Polymerwerkstoff II	ME: Polymers II

In your 5<sup>th</sup> year you will return and complete the requirement for your OSU ME degree:

Fourth Year			
<a href="#">ME 320/ECE 356</a>	SYSTEMS DYNAMICS AND CONTROL		4
<a href="#">ME 351</a> or <a href="#">ESC 340</a>	INTRODUCTION TO INSTRUMENTATION AND MEASUREMENT SYSTEMS or INTRODUCTION TO EXPERIMENTATION		4
<a href="#">ME 383</a>	MECHANICAL COMPONENT DESIGN		4
<a href="#">MIME 497</a> or <a href="#">ENGR 415</a>	^MIME CAPSTONE DESIGN or ^ENGINEERING CAPSTONE DESIGN 1		4
<a href="#">MIME 498</a> or <a href="#">ENGR 416</a>	^MIME CAPSTONE DESIGN or ^ENGINEERING CAPSTONE DESIGN 2		4
Option Courses			12
*Synthesis Courses			6
*Biological Science Course w/Lab			4
<b>Credits</b>			<b>42</b>

- An OSU Senior Project Report (or Honors College thesis) is submitted to UdS as Senior Thesis
- A 6-week industrial internship at any point in your University career is necessary for the UdS