

ROSE STATE COLLEGE  
Engineering Associate in Science (AS): Mechanical and Aerospace Option

OKLAHOMA STATE UNIVERSITY  
Bachelor of Science (BS) in Mechanical Engineering

# ROSE STATE COLLEGE

Year	FIRST SEMESTER			SECOND SEMESTER		
<b>FIRST</b>	Rose State College Class		OSU Equivalent	Rose State College Class		OSU Equivalent
	ENGL 1113	English Comp. I	ENGL 1113	ENGL 1213	English Comp. II	ENGL 1213
	CHEM 1135	Gen. Chemistry I	CHEM 1314 (counts as Basic Science)	CHEM 1145	Gen. Chemistry II	CHEM 1414
	MATH 1914	Calculus I	MATH 2144	MATH 2924	Calculus II	MATH 2153
	ENGR 1213	Intro. to Engineering	ENGR 1111	PHYS 2434	Physics I	PHYS 2014
		Humanities	Humanities	PHYS 2401	Gen. Physics Lab I	PHYS 2014
<b>RSC Credit Hours: 18</b>			<b>Transfer Hours: 14</b>	<b>RSC Credit Hours: 17</b>		<b>Transfer Hours: 14</b>

Year	FIRST SEMESTER			SECOND SEMESTER		
<b>SECOND</b>	Rose State College Class		OSU Equivalent	Rose State College Class		OSU Equivalent
	HIST 1483 or HIST 1493	US History to 1877 or US History since 1877	HIST 1103	POLS 1113	Am. Fed. Government	POLS 1113
	MATH 2934	Calculus III	MATH 2163	MATH 2173	Differential Equations	MATH 2233
	ENGR 2103	Statics	ENSC 2113	ENGR 2133	Strength of Materials	ENSC 2143
	PHYS 2444	[a] Physics II	PHYS 2114	ENGR 2313	Thermodynamics	ENSC 2213
	PHYS 2411	[a] Gen. Physics Lab II	PHYS 2114		Humanities	Humanities
		Liberal Arts	Social Sciences			
<b>RSC Credit Hours: 18</b>			<b>Transfer Hours: 16</b>	<b>RSC Credit Hours: 15</b>		<b>Transfer Hours: 15</b>



Year	[b] FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
<b>JUNIOR</b>	ENGR 1332	[c] Solid Works	2	ENSC 3313	Materials Science	3
	ENGR 1412	Python	2	MAE 3013	Engineering Analysis	3
	ENGR 2421	Data Acquisition Lab	1	MAE 3153	Intro. to Mechanical Design	3
	ENSC 2123	[c] Dynamics	3	MAE 3233	Heat Transfer	3
	ENSC 2141	Strengths Lab	1		Technical Elective	3
	ENSC 2613	[c] Intro. to Electrical Science	3			
	ENSC 3231	Fluids Lab	1			
	MAE 3333	Fundamentals of Fluid Dynamics	3			
<b>Credit Hours:</b>			<b>16</b>	<b>Credit Hours:</b>		<b>15</b>

Year	FIRST SEMESTER			Hours	SECOND SEMESTER			Hours
<b>SENIOR</b>	MAE 3324	Mechanical Design I	4	IEM 3503	Engineering Econ. Analysis	3		
	MAE 3403	Comp. Methods in Analysis & Design	3	MAE 4344 or 3544	Senior Design	4		
	MAE 3524	Thermal Fluid Design	4		MAE Elective	3		
	MAE 3724	System Analysis	4		MAE Elective	3		
					MAE Category 1	3		
	<b>Credit Hours:</b>			<b>15</b>	<b>Credit Hours:</b>			<b>15</b>

Notes:

At OSU, the I, D and S requirements are waived with the Associates in Science Degree.

[a] PHYS 2444 and 2411 at RSC will count toward the BS degree at OSU.

[b] Must complete 60 credit hours (minimum) at OSU for the BS degree.

[c] Equivalent courses exist at RSC that will count toward the BS degree at OSU.

Before transferring to OSU, have the RSC Registrar send an official transcript to the OSU Admissions Office with any degrees earned noted on the transcript. If you have not completed the requirements for an associate degree, talk with your OSU Academic Advisor about Reverse Transfer options to use OSU coursework to complete your RSC associate degree.

For OSU Official Use Only:

Transfer Credit Evaluation

Initials \_\_\_\_\_ Date \_\_\_\_\_

DegreeWorks Review

Initials \_\_\_\_\_ Date \_\_\_\_\_

# RSC OSU

OSU-Stillwater

## TRANSFER MAPS



### Engineering Associate in Science Degree: Mechanical and Aerospace Option (RSC) to Bachelor of Science in Mechanical Engineering (OSU)

Rose State (years 1 and 2) – 2020-21

Year One –Rose State College					
Fall Semester			Spring Semester		
RSC Requirement	OSU Equivalent	✓	RSC Requirement	OSU Equivalent	✓
ENGL 1113 – Comp I	ENGL 1113	3	ENGL 1213 – Comp II	ENGL 1213	3
CHEM 1135 – Gen. Chem I	CHEM 1314 (counts as Basic Science)	3	Eng. Sci. Elective – CHEM 1145 – Gen. Chem II	CHEM 1414	4
MATH 1914 – Calc I	MATH 2144	4	MATH 2924 – Calc II	MATH 2153	3
ENGR 1213 – Intro Eng	ENGR 1111	1	PHYS 2434 – Physics I	PHYS 2014	3
Humanities (3)	Humanities (3)	3	PHYS 2401 – Gen. Phys. Lab 1	PHYS 2014	1
<b>RSC Semester Total – 18 hrs</b>	<b>OSU Eng. degree hrs</b>	<b>14</b>	<b>RSC Semester Total - 17</b>	<b>OSU Eng. degree hrs</b>	<b>14</b>

At OSU, CHEM 1135 will count as 3 hours of Basic Science and CHEM 1145 substitutes for CHEM 1414 – Chemistry for Engineers

Year Two – Rose State College					
Fall Semester			Spring Semester		
RSC Requirement	OSU Equivalent	✓	RSC Requirement	OSU Equivalent	✓
HIST 1483 OR HIST 1493	HIST 1103	3	POLS 1113	POLS 1113	3
MATH 2934 – Calc III	MATH 2163	3	S&R Elec: MATH 2173 – Diff Eq.	MATH 2233	3
Eng. Elec: ENGR 2103 – Statics	ENSC 2113	3	Eng. Elec: ENGR 2133 – Strength of Materials	ENSC 2143	3
Eng. Sci. Elec: PHYS 2444 – Physics II	PHYS 2114	3[a]	Eng. Elec: ENGR 2313 – Thermodynamics	ENSC 2213	3
PHYS 2411 – Gen Phys Lab 2	PHYS 2114	1[a]	Humanities (3)	Humanities (3)	3
Liberal Arts (3)	Social Sciences (3)	3			
<b>RSC Semester Total – 18 hrs</b>	<b>OSU Eng. degree hrs</b>	<b>*16</b>	<b>RSC Semester Total - 15</b>	<b>OSU Eng. degree hrs</b>	<b>15</b>

At OSU, the I, D and S requirements are waived with the Associates in Science Degree.

[a] PHYS 2444 and 2411 at RSC will count toward the BS degree at OSU

Before transferring to OSU, have the RSC Registrar send an official transcript to the OSU Admissions Office with any degrees earned noted on the transcript. If you have not completed the requirements for an associate degree, talk with your OSU Academic Advisor about Reverse Transfer options to use OSU coursework to complete your RSC associate degree.

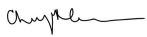
**[b] OKLAHOMA STATE UNIVERSITY (years 3 and 4) – 2020-21**


Year Three – Oklahoma State University			
Fall Semester		Spring Semester	
OSU Requirement	✓	OSU Requirement	✓
ENGR 1332 SolidWorks [c]	2	ENSC 3313 Materials Science	3
ENGR 1412 Python	2	MAE 3013 Engineering Analysis	3
ENGR 2421 Data Acquisition	1	MAE 3153 Intro to Mechanical Design	3
ENSC 2123 Dynamics [c]	3	MAE 3233 Heat Transfer	3
ENSC 2141 Strengths Lab	1	Technical Elective	3
ENSC 2613 Intro to Electrical Science [c]	3		
ENSC 3231 Fluids Lab	1		
MAE 3333 Fundamentals of Fluid Dynamics	3		
<b>Semester Credit Hours at OSU: 16</b>		<b>Semester Credit Hours at OSU: 15</b>	

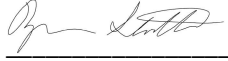
Year Four – Oklahoma State University			
Fall Semester		Spring Semester	
OSU Requirement	✓	OSU Requirement	✓
MAE 3324 Mechanical Design 1	4	IEM 3503 Engineering Econ Analysis	3
MAE 3403 Computer Methods in Analysis & Design	3	MAE 4344 or 3544 Senior Design	4
MAE 3524 Thermal Fluid Design	4	MAE Elective	3
MAE 3724 System Analysis	4	MAE Elective	3
		MAE Category 1	3
<b>Semester Credit Hours at OSU: 15</b>		<b>Semester Credit Hours at OSU: 16</b>	

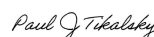
**[b] Must complete 60 credit hours (minimum) at OSU for the BS degree**


**[c] Equivalent courses exist at RSC that will count toward the BS degree at OSU**

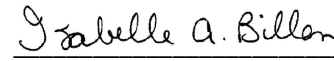
  
 Cheryl Kleeman, Director, Transfer & Veterans Services, OSU      Date  
 Nov 1, 2021

  
 Randy Seitsinger, Associate Dean, College of Engineering, Architecture, Date  
 and Technology, OSU      Nov 2, 2021

  
 Dr. Ryan Stoddard, Dean Engineering and Science, Rose State College      Date  
 Nov 1, 2021

  
 Dr. Paul Tiklasky, Dean, College of Engineering, Architecture, and      Date  
 and Technology, OSU      Nov 29, 2021

  
 Daniel E. Fisher (Nov 2, 2021 10:58 CDT)      Date  
 Dr. Daniel Fisher, Department Head, Mechanical and Aerospace      Nov 2, 2021  
 Engineering, OSU

  
 Dr. Isabelle Billon, Vice President for Academic Affairs, Rose State      Date  
 College      Nov 1, 2021

