

BACHELOR OF SCIENCE IN  
**Engineering Technology/Motorsports**  
FROM OLD DOMINION UNIVERSITY

*A Transfer Guide*



Put your mind to it.  
*Realize your potential.*

This program is open to students that have completed lower-division course requirements or earned an AS, AA&S or AAS degree in Engineering, Engineering Technology or related fields and desire to continue their baccalaureate education by pursuing upper-division courses of study in engineering areas related to Motorsports, such as Thermodynamics, Fluid Mechanics, Ground Vehicle Aerodynamics, Race Car Performance, Vehicle Dynamics, High Performance Piston Engines, etc. The program is delivered through a combination of on-site live lectures, distance-televised classes on ODU's TELECHNET System, and laboratory practice at relevant sites including the Virginia International Raceway (VIR), Virginia Motorsports Technology Center, at PHCC and NASA's Full-Scale Wind Tunnel operated by ODU.

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[www.NewCollegeInstitute.org](http://www.NewCollegeInstitute.org)

[www.admissions.odu.edu/undergraduate.php?page=transfer](http://www.admissions.odu.edu/undergraduate.php?page=transfer)

# Bachelor of Science in Engineering Technology/Motorsports from Old Dominion University

## A Transfer Guide

Old Dominion University's prospective students should refer to ODU's Transfer Guide for complete transfer requirements (see website at bottom of page).

### I. First Two Years—(67 credits General Education plus Technical Content)

	CREDITS	ODU COURSES		VCCS COURSES
Written Communication	3	ENGL 110C	English Composition	ENG111
	3	ENGL 131C	Technical & Scientific Writing	ENG 115 or 131
Oral Communication	3	COMM 101R	Public Speaking	SPD 105, 110 or 200
	3	MATH 162M	Pre-Calculus I	MTH 163 or 168
Mathematics	3	MATH 163	Pre-Calculus II	MTH 164
	4	MATH 211	Calculus	MTH 173 or MTH 175 & 176
Computer Skills	3	MET 100	Engineering Graphics	DRF 115, 233, or 238
Literature	3	ENGL 112L, 114L	Literature Perspective(L)	ENG 125, 241, 242, or 246
Natural Science	4	PHYS 111N	General Physics I with Lab	PHY 201
	4	PHYS 112N	General Physics II with Lab	PHY 202
Social Science	4	CHEM 115N	Found. Of Chemistry with Lab	CHM 111 or 113
	3	SOC 201S	Social Science Perspective(S)	SOC 200
Technical Base	18	DEPT	Technical Base	Choose 18 credits from any of the following: MTS: 130, 140, 150, 210, 211, 240, 250 or 298 EGR: 130, 135, 136, 140, 215, 240, 245, 246, 247, 249 or 250
				Choose 9 credits from any of the following: MTS: 131, 250, 295 or 299, DRF: 226, 239, 241 or 242 EGR: 206, 216, 255 or 260
Technical Electives	9	DEPT	Technical Elective Lower-Div	Choose 9 credits from any of the following: MTS: 131, 250, 295 or 299, DRF: 226, 239, 241 or 242 EGR: 206, 216, 255 or 260
<b>Total Required Credits</b>	<b>67</b>			

### II. Required courses (9 credits) that could be taken at a Community College in the last two years of Motorsports Program

	CREDITS	ODU COURSES		VCCS COURSES
Fine and Performing Arts	3	ARTS 122A	Fine Arts Perspective	ART 111,112,113,114,121,or 122
History	3	HIST 104H	History Perspective	HIS 101, 102, 111,112,121, or 122
Philosophy	3	PHIL 120P	Philosophy Perspective	PHI 101, 102, 111,112, 200, 211, 212 or 220
<b>Total Required</b>	<b>9</b>			

### III. Courses that must be taken through ODU/NCI to complete the Baccalaureate Degree in Motorsports (45 Credits)

MET 300	Thermodynamics	3	AE 477	High Performance Piston Engines	3
MET 305	Principles of Mechanics	3	MET 435	Senior Project	3
MET 330	Fluid Mechanics	3	DEPT	Technical Elective Upper-Division	3
MET 335	Fluid Mechanics Lab	1	ENMA 301	Engineering Management	3
MET 350	Thermal Applications	3	ENMA 302	Engineering Economics	3
MET 387	Power & Energy Laboratory	2	ENMA 401	Project Management	3
AE 407	Ground Vehicle Aerodynamics	3	ENMA 420	Statistics	3
AE 457	Vehicle Dynamics	3			
AE 467	Race Car Performance	3	<b>Total required credits Upper-Division</b>		<b>45</b>

### IV. Special Requirements:

All MTS ### courses require the completion of practice in ad-hoc laboratories.

All Natural Science Lower-Division courses require completion of Laboratory (Standard Science Laboratories).

The following Upper-Division courses require completion of Laboratory: MET 335, MET 387, AE 407, AE 457, AE 467, and AE 477 (ODU Engineering and Motorsports Laboratories).

MET 435 requires a minimum of 6 hours of laboratory per week (Engineering Project Laboratory-Motorsports-based).