

Commission on Undergraduate Studies and Policies
Resolution 2020-2021A
Resolution to Approve New Major, Automotive Engineering, in Bachelor of Science
in Mechanical Engineering

Approved by the Commission on Undergraduate Studies and Policies:	September 28, 2020
Faculty Senate waived right to comment:	September 28, 2020
Staff Senate:	October 8, 2020
Student Government Association waived right to comment:	October 19, 2020
Graduate Student Assembly waived right to comment:	October 19, 2020
First Reading by University Council:	October 19, 2020
Approved by University Council:	November 2, 2020
Approved by the President:	November 2, 2020
First Effective Date to Declare Major:	Fall 2020
First Effective Date to Graduate:	Winter 2022

WHEREAS, the Major in Automotive Engineering will advance knowledge and education to make the next generation of autonomous and non-autonomous vehicles that will enhance the safety and efficiency of the road transportation system and will save lives with new generation of technology; such as 1) advanced chassis control systems, 2) autonomous vehicles, and 3) intelligent systems; and

WHEREAS, Automotive Engineering represents a unique academic and interdisciplinary field that will educate the next generation of engineering students with a hands-on as well as theoretical career on emerging topics of tire mechanics, vehicle dynamics, crash worthiness, electric and IC engines, chassis engineering, human machine interface, vehicle control; and

WHEREAS, the Department of Mechanical Engineering supports the mission of continued emphasis on automotive engineering by educating the next generation of automotive engineers; and

WHEREAS, the new curriculum will allow students to fundamentally understand the principles of automotive engineering, vehicle dynamics and control, and apply them to the next generation of complex transportation systems in a wide range of applications including, but not limited, to autonomous and connected vehicles, chassis control systems, advanced driver assist systems; and

WHEREAS, the Major in Automotive Engineering is designed for students who wish to pursue a career in automotive industries, tire industries, and autonomous vehicle industries; and

WHEREAS, students in the Major in Automotive Engineering will gain a comprehensive and interdisciplinary education of complex dynamical systems, transportation systems, experimental methodologies, engineered control systems, and computer programming.

THEREFORE, LET IT BE RESOLVED that the Major in Automotive Engineering be approved for the addition to the Bachelor of Science in Mechanical Engineering effective Fall 2020 and the proposal forwarded through University governance and to the President for the approval.



Staff Senate

<http://www.staffsenate.vt.edu/>

2020-2021

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October 8, 2020

To: Vice President of Policy and Governance

The Staff Senate Committee on Policy and Issues has reviewed and approves
Resolution A_BSME Automotive Engineering.

Thank you,

LaTawnya Burleson, Chair Staff Senate Policies and Issues Committee