



SHAPING THE FUTURE OF AEROSPACE

AIAA SPACE PHILOSOPHY GATHERING

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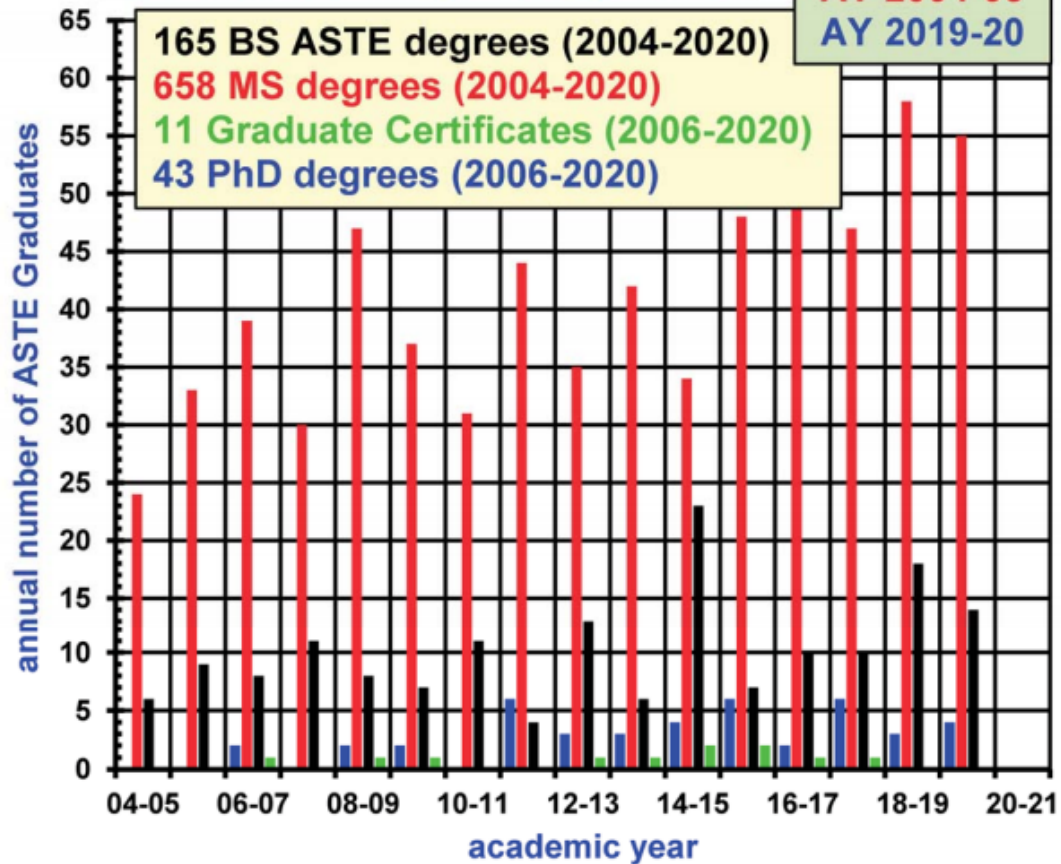
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USC ASTRONAUTICAL ENGINEERING

USC/VSOE BS, MS, GC, and PhD in
Astronautical Engineering (ASTE)

AY 2004-05
AY 2019-20



Students pursuing MS ASTE
through DEN in 2005–2021



Master of Science in Astronautical Engineering (MS ASTE)

NEIL ARMSTRONG – USC DISTINGUISHED ASTRO ALUMNUS





E PLURIBUS UNUM



PHILOSOPHY - THE STUDY OF THE FUNDAMENTAL NATURE OF KNOWLEDGE, REALITY, AND EXISTENCE, ESPECIALLY WHEN CONSIDERED AS AN ACADEMIC DISCIPLINE

- ALL GREAT CIVILIZATIONS HAVE GREAT PHILOSOPHICAL UNDERPINNINGS
- VISIONS, POLICIES, CONCEPTS, ARCHITECTURES MANIFEST & FLOW FROM GREAT PHILOSOPHIES
- WESTERN & EASTERN
- PHYSICAL & METAPHYSICAL & SPIRITUAL
- OLD ENDURING CIVILIZATIONS & CULTURES
- DUALISTIC & MONISTIC
- SHANKARA – ADVAITA VEDANTA

MODERN PHILOSOPHIES

- PHYSICAL SCIENCE – ASTRONOMY & COSMOLOGY
- LIFE SCIENCES – ORIGIN OF LIFE, LIFE IN THE UNIVERSE
- ANTHROPOLOGY
- ARCHITECTURE
- ARTS
- ENGINEERING – TECHNOLOGICAL SUBLIME
- ECONOMIC
- LAW & GOVERNANCE – NATION STATE PARADIGM
- COMMON DEFENSE
- HISTORY

SPACE (EXPLORATION-ACTIVITY) PHILOSOPHY

- MOST SPACIOUS, EXPANSIVE, TRANSPARENT PHYSICAL DOMAIN
- RELEASE FROM GEOGRAPHY, NATION STATE PHILOSOPHY & BOUNDARIES
- SITUATIONAL AWARENESS – NEAR SPACE, SOLAR SYSTEM, GALACTIC, COSMIC
- NEW WORLD VIEW - SUPRA COSMOPOLITANISM
- SPECIES AND BIOSPHERE AWARENESS & SENSITIVITY
- RESONATES WITH FREEDOM – FREE WORLD VALUES

NEW SPACE PARADIGMS

- ELON MUSK – SETTLE OTHER PLANETS –HUMAN SURVIVAL INSURANCE
- JEFF BEZOS – PROTECT AND MAKE EARTH BEAUTIFUL
- JOHN MARBURGER III – ECONOMIC SPHERE OF INFLUENCE
- JOSEPH CAMPBELL - RETURN OF THE HERO
- FREEMAN DYSON – BEAUTIFY OUR UNIVERSE
- FRANK WHITE –OVERVIEW EFFECT
- MICHELLE HANLON - PRESERVATION OF SPECIES CULTURAL HERITAGE
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