

Meeting Minutes – Class Advisory Senate, 18 January 2022

1. Call to Order: Randy Helms '79, called the meeting to order at 1800.

2. Members in Attendance: See Attachment 1

3. Others in Attendance:

Lt Colonel Adam Wasinger, '05, Dep CC Det 1, Space Force Delta 13

Bob Lowe '71, Chair, USAFA AOG Board of Directors

Lt General (ret) Mike Gould, '76, CEO USAFA AOG & AFAF

Mark Hille, '97, President, USAFA AOG & AFAF

Corrie Grubbs, Senior Vice President USAFA AOG Operations

Naviere Walkewicz, '99, Senior Vice President, USAFA AOG Alumni Relations

4. Previous Minutes:

<https://aog-websites.s3.amazonaws.com/usafa-org/documents/aog/governance/CAS/CAS+Minutes+-+19+October+2021+meeting+ FINAL.pdf>

5. Opening Remarks:

CAS President Randy Helms, '79 opened the meeting and introduced Lt Colonel Adam Wasinger, '05, Dep CC Det 1, Space Force Delta 13, (USAF Academy).

6. Lt Colonel Adam Wasinger, '05:

- Lt Colonel Wasinger presented A BRIEFING ENTITLED “Space Force at USAFA”.
 - See Attached slide presentation – there is a great amount of detail in the slides.
- Some major bullet points:
 - AFA is leading the way and breaking new ground for all the military academies and all ROTC units.
 - There are classes under the AFA Academic Department. The classes are to prepare officers to lead across any warfighting domain.
 - Hands-on space applications span seven USAFA research centers in Aero, Astro, Physics, and Political Science. There are eleven Space Courses (Astro). Emphasis is on operations. All courses are listed in the slides.
 - Cadets can receive a Space Major in Space Operations, Astronautical Engineering and Systems Engineering Astro. They can also earn a Space Minor in Space Warfighting on five tracks: Ops track, Intel track, Acquisition track, and Cyber/ Data track.
 - There is no plan to have a separate Space Academy.



- There are five career fields in Space Force.
 - There will eventually be a Space Education Center on the AF Academy.
 - He briefed the Blue Horizon (Rocketry), FalconSAT & Cadet Space Operations (CSOPS), and the Institute for Applied Space Policy and Strategy.
 - The current FalconSAT Fleet consists of FalconSAT-6 which was launched in December 2018, FalconSAT-8 which was launched in May 2020, and FalconSAT-10 which is scheduled to launch in December 2022.
- Lt Colonel Wasinger briefed the i5 Space Club; they are working with Faculty Law Department to create a Fall 2022 NATO Space Deterrence Course, which will be a part of the Space Warfighting Minor Program.
 - He showed a short (1 minute, 15 seconds) video on i5 space threats/ vulnerabilities (i5 is the Applied Institute for Space Policy). This video is in the slides.
 - The USAF strength is about 330,000 personnel, the SF will have about 6,000 personnel.
 - A Space Delta is equivalent to an Air Force Wing.
 - Delta-13, Det-1 is the first Space Force detachment established.
 - Delta-10 is also at the Air Force Academy and does space wargaming.
 - There is a program called AZIMUTH, which is designed to motivate and inform three-degrees who are considering a career in the Space Force.
 - See slide #14 for statistics on the numbers of AFA Cadets in Space career fields in Classes 2020 (86 to graduate), 2021 (118 to graduate), and 2022 (100 to graduate).
 - In the Space Force, when compared to West Point and Annapolis, the AFA has the grand majority of slots (96 versus 4 for both other academies).
 - USAF Academy is helping to build the foundation of the US Space Force in the five SF career fields (Space Ops, Intel, Cyberspace, Engineering, and Acquisition).

7. Bob Lowe, '71, Chairman, AOG Board of Directors Remarks:

- He said the Board is encouraging Senators to run for the AOG Board in the 2023 election.
- The next Board meeting is on 23 February 2022.
- The May 2022 Board of Directors meeting is a strategy development meeting. They are looking for Class Senators to provide input to that discussion.

8. Lt Gen Mike Gould, '76, CEO AOG & AFAF Remarks:

- He provided an update on the North Gate project.
 - The Financial Team sold all the required bonds.
 - 31 January is the closing date.
 - Closing plus 60 days is when they should start construction.
 - The AOG Board guaranteed \$6 million.



9. Mark Hille, '97, AOG & AFAP Vice President:

- Mark Hille, '97 briefed the new AOG-AFAP Organizational Chart. This is still a work in progress, but they are almost complete in the re-organization. See attached slide.
- Naviere Walkewicz, '99 was selected as the new Senior Vice President, Alumni Relations and Business Development.

10. Naviere Walkewicz, '99, AOG Senior Vice President Alumni Relations:

- She updated the effort that is currently under way for Membership for All Grads. The program was launched on 3 January 2022. A few things are still in the working stage.
- Grads will have to "opt-in" to be a member. The AOG goal is to get 85% to "opt-in."
- Legacy members (Life Members) DO NOT have to "opt-in."
- Legacy members (Life Members) will still receive a hard copy of Checkpoints.

11. Other Business / Round Table:

- Randy said that he will send a name-and-email-address-list to all senators so that they can cross-talk about Senate issues as they please.

12. Randy Helms, '79, CAS President, gave brief closing comments:

- He thanked Senators for their continued support and adjourned the meeting.

13. Next Meetings:

- AOG Board, 23 February 2022
- CAS Executive Committee, 15 March 2022
- CAS, 19 April 2022
- CAS Schedule: [CAS Schedule: CAS Schedule.xlsx \(aog-websites.s3.amazonaws.com\)](https://s3.amazonaws.com/aog-websites/CAS Schedule.xlsx)

14. Close/Adjournment:

The meeting was adjourned at 1941.

Minutes submitted by: Tom Hayden '74, CAS Secretary

Minutes approved by: Randy Helms '79, CAS President

Attachments:

1. [Members in Attendance](#)
2. [Space Force Slides](#)
3. [AFAP-AOG Org Chart](#)
4. [Slide on AOG Membership for ALL](#)

ASSOCIATION OF GRADUATES

UNITED STATES AIR FORCE ACADEMY



18 January 2022

Atch 1: Members in Attendance:

	93
59 Larry Fortner	94
60 Dick Sexton	95 (Tim Gillaspie - B)
61 Patrick Buckley	96 Andi Vinyard
62	97
63 John Borling	98
63 (Lou Matjasko - B)	99
64 Doug Jenkins	00
65 Jim Vick	01
66 Larry Bagley	02
67 Jeff Schofield	03
68 Hartsel Beckett	04 Shayla CantySmith
69 Tom Fleming	05
70 Roger Hill	06
71 Tom Berry	08 CJ Thomsen
72 (Mush Brower – B)	09
73 A J Ranft	10
74 Tom Hayden - Secretary	11
75 Bruce Mitchell	12
76 Dan Beatty	12)
77	13
78 Winston Churchill	14
79 Randy Helms – President	15
80 Derek Hess	16
81	17
82	18
83	19
84	20
85	21 Matthew Vidican
86	
87 Tim Matson	Names in () are non-senators
88	
89	“B” = Backup
90 Cathy Almond	
91	“G” = Guest
92 Rick Bailey	

Attendance Total = 29 out of 63 Senators



Space at USAFA



Lt Col Adam “Waz” Wasinger
17 Jan 22



Overview



- **Space at USAFA**
- **USAFA Space Courses**
- **Cadet Space Clubs**
- **USAFA Guardian Footprint**
- **Delta 13 Detachment 1**
- **Azimuth**
- **Building the Space Force**
- **Recent Events**

- Space spans many USAFA mission areas and academic departments
 - Role models across USAFA leadership
 - Cadets and faculty working together
 - Cadet Wing (CW) runs summer programs
 - Dean of Faculty (DF) teaches courses
- Prepares officers to lead across any warfighting domain
- Hands-on space applications span 7 USAFA research centers
 - Department of Aeronautics (1)
 - Department of Astronautics (1)
 - Department of Physics (4)
 - Department of Political Science (1)



Classrooms



Labs



Summer Programs



USAFA Space Courses



Engineering Division

Astro Engr 310. Introduction to Astronautics*
Astro Engr 321. Intermediate Astrodynamics
Astro Engr 331. Space Systems Engineering
Astro Engr 332. Satellite Communications
Astro Engr 335. Human Spaceflight
Astro Engr 351. Rocket Propulsion
Astro Engr 422. Advanced Astrodynamics
Astro Engr 423. Space Mission Design
Astro Engr 431. Space Mission Payload Design (Spring 2021)
Astro Engr 436/437. FalconSAT Capstone Design
Astro Engr 445. Spacecraft Attitude Dynamics and Control

Space 251/252. FalconSAT Operator Certification
Space 350. FalconSAT Commander/Instructor Upgrade

Social Sciences Division

GEO 382. Remote Sensing and Imagery Analysis
GEO 482. Advanced Remote Sensing
Law 419. Space Law
MSS 444. Space & Cyber Strategy for National Security
Pol Sci 465. US National Space Policy

Basic Sciences Division

Chem 325. Space Chemistry
Physics 370. Upper Atmospheric and Geo-Space Physics
Physics 371. Astronomy
Physics 375. Physics of Space Domain Awareness
Physics 451. Plasma Physics
Physics 486. Astrophysics

Humanities Division

History 376. A History of Space Power: Conquest of the New Frontier

Space Majors

- Space Operations
- Astronautical Engineering
- Systems Engineering Astro

Space Minors

- Space Warfighting
 - Ops Track
 - Intel Track
 - Acquisition Track
 - Cyber/Data Track

* Mandatory for graduation

Blue Horizon (Rocketry)

- Consisting of a diverse group of cadets dedicated to the vision of this team. The cross discipline of study involved with a rocketry program is one that stretches the spans of every department at USAFA.



FalconSAT & Cadet Space Operations (CSOPS)

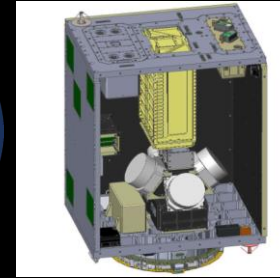
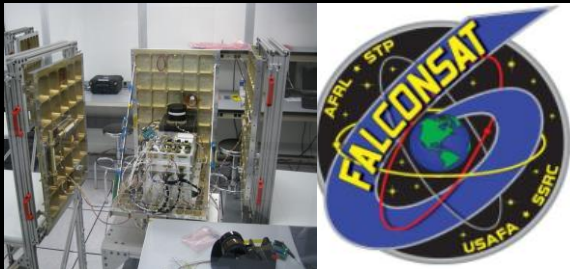
- Cadets Design, test, and build Satellites with DoD support
- 6 satellites flown to date (gold, 1, 3, 5, 6, 8)
- 2 satellites currently on orbit (FalconSAT 6 and 8)



Institute for Applied Space Policy and Strategy

- i5 has multiple research teams dedicated to the pursuit of space knowledge. They work to produce papers on various topics ranging from the contemporary application of space power to futuristic theories on the use of the final frontier





FalconSAT-6

- Launched December 2018
- Operated for over 3500 passes
- Ongoing payload experimentation
- Data trends and analysis for future missions
- 400+ cadets involved over program life (ops & engineering)

FalconSAT-8

- Launched May 2020 attached to the X-37B
- Deployed from host vehicle in October 2021
- Disconnected
- Commissioning complete
- Initial payload experimentation
- 300+ cadets involved over program life (ops & engineering)

FalconSAT-X

- Deliver to launch 1 Dec 2022
- Currently undergoing system level testing phase
- Includes compact avionics tray and cadet-built star tracker
- Carries experimental payloads from DOD stakeholders
- 100+ cadets involved over program life (engineering)

▪ i5 Space Club

- Highlighted in Air Force Mag - Dec 21'
- Created website: <https://www.i5usafa.com/>
- In the last month, i5 created space dets at Virginia Tech, Texas A&M, and Annapolis. Harvard's next.
- Want to become a Cadet Sq under Del 13 Det 1
 - Accurately gives military leadership credit
 - Club membership now at ~210



▪ Working with DF Law department to create Fall 22' "NATO Space Deterrence Course." Future part of Space Warfighting Minor



▪ Creating STAR Program

- Voluntary training curriculum, awarding space related certifications each year until graduation
- Helps Delta 13 provide real-time solutions to future Guardians nation-wide

▪ 18 Jan - Hosting "Strat Talk" with the Dean

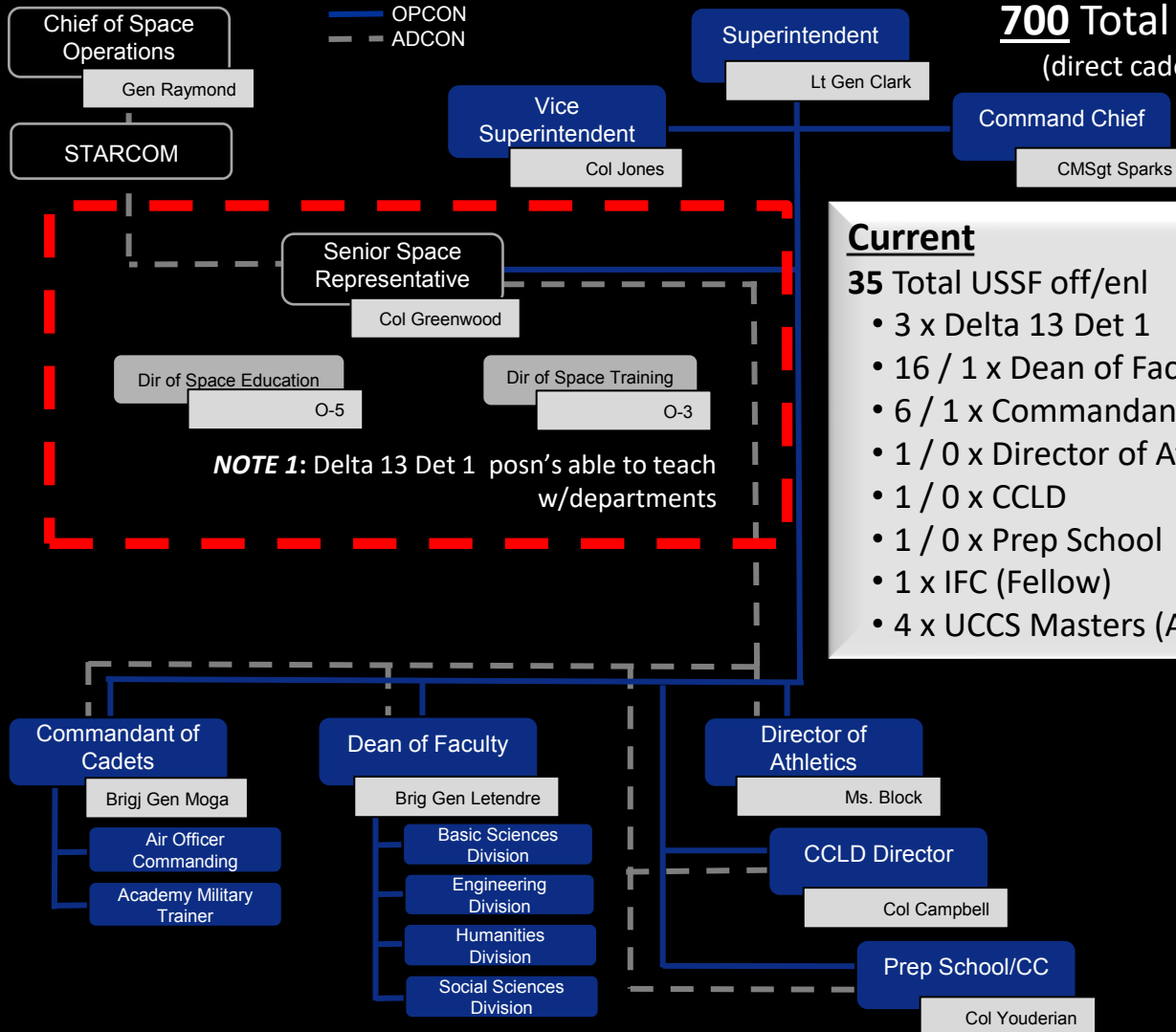
▪ Met with Space Force Association President

- Strategizing how to further develop future space



USAFA Guardian Footprint

Current + Proposed Guardians



700 Total off/enl personnel at USAFA
(direct cadet facing)

Current

35 Total USSF off/enl

- 3 x Delta 13 Det 1
- 16 / 1 x Dean of Faculty
- 6 / 1 x Commandant of Cadets
- 1 / 0 x Director of Athletics
- 1 / 0 x CCLD
- 1 / 0 x Prep School
- 1 x IFC (Fellow)
- 4 x UCCS Masters (AOC)

Proposed

31 Total USSF off/enl

- 3 x Delta 13 Det 1
- 13 x Dean of Faculty
- 5 / 4 x Commandant of Cadets
- 1 / 0 x Director of Athletics
- 1 / 0 x CCLD
- 1 / 0 x Prep School
- 1 x IFC (Fellow)
- 2 x UCCS Masters (AOC)

NOTE 1: Delta 13 Det 1 posn's able to teach w/departments

Delta 13 Detachment 1 First USAFA Space Force Unit

Establishment (complete)

Criteria

- ✓ USSF liaison in-place (arrived 13 July 2020)
- ✓ Integrate USSF into USAFA documentation
- ✓ Set process for Class of 2021/2022 selection
- ✓ Space Force Assignment Board in-place
- ✓ Unify Space Professionals across USAFA

IOC (~FY22)

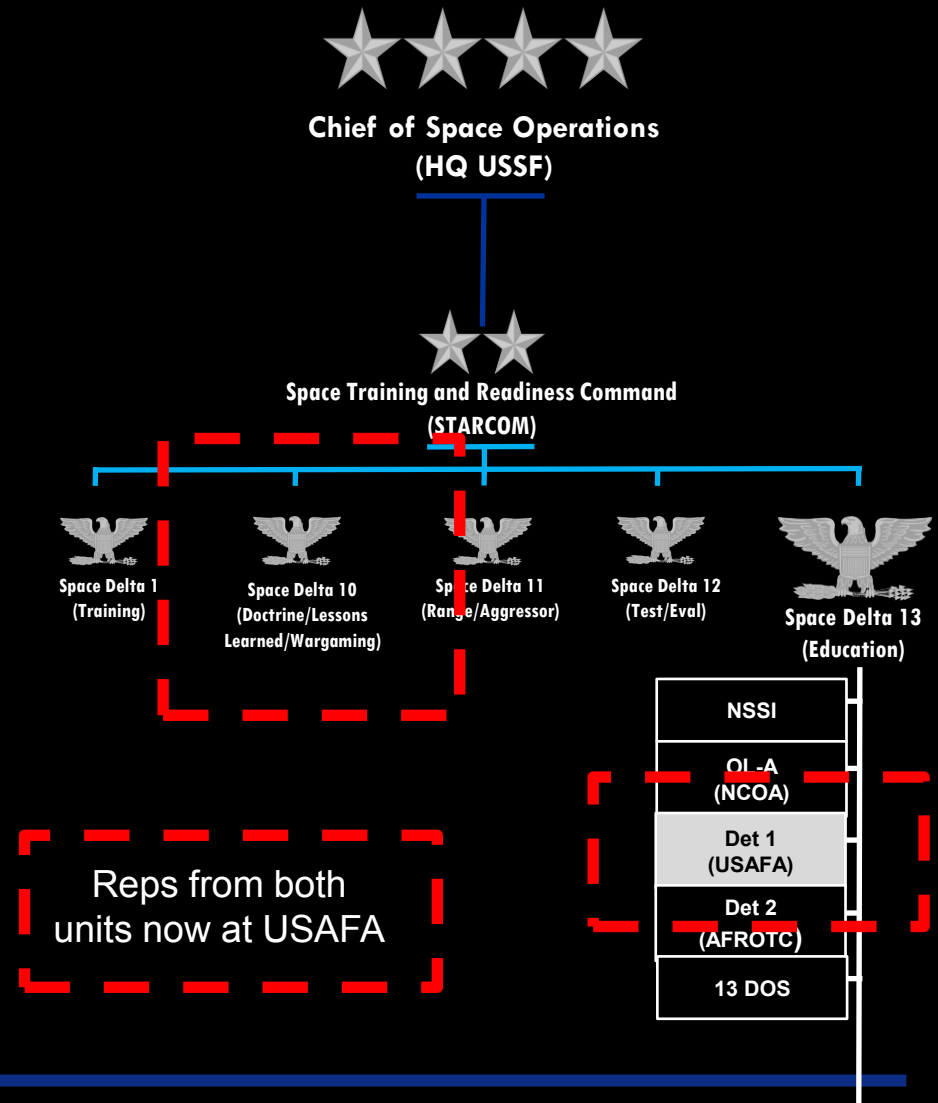
Criteria

- “Leatherneck” equivalent program developed
- Enhanced space programs for cadets
- ✓ 50% of USSF billets filled
- Organizational reporting chain solidified
- Physical bed down location determined

FOC (~FY24)

Criteria

- AADs/grad slots/cross-commissioning
- USSF permanent professor
- 100% of USSF billets filled
- Space programs for every year group
- MI³ USAFA cadets towards space



Delta 13 Detachment 1

- **Delta 13 Det 1 is the first USAFA Space Force detachment ever established**
 - Helps drive accession process for “how” USAFA, Westpoint, and Annapolis guardians are selected
 - Synchronizes USAFA Guardian presence across all USAFA mission elements
 - Helps support “all things space”
 - Develops/implements Space Guardianship programs



Commander



Director of Space
Training



Director of Space
Education

MISSION

As the premier undergraduate commissioning source for the United States Space Force, Air Force Academy Guardians support both the Academy’s mission to educate, train and inspire men and women to become officers of character, and the Space Force’s goal to motivate, inform, influence, inspire (MI³) and assess cadets in order to commission high caliber second lieutenants into the Space Force



Delta 13 Detachment 1 cont.

■ Accomplishments

- ✓ Created first USAFA Space Force unit
- ✓ Developed Cadet Sq Space Mentoring Prgm
- ✓ Conducted 1st Space Force Assignment Board
 - ✓ Selected Guardians from CY21 & CY22
- ✓ Lt Gen Clark's Space Force Liaisons
 - ✓ Graduate associations & reunions
 - ✓ Site lead for many high-vis Distinguished Visitors
 - ✓ Astronauts
 - ✓ Domestic / Foreign Space Generals
- ✓ Led USAFA Space Force transfer ceremonies
- ✓ Led Community Space Day
- ✓ Helped refine cadet space clubs
 - ✓ Cadet Space Operations - Real world DoD missions
 - ✓ Blue Horizon - Rocketry
 - ✓ i5 - featured in Air Force Magazine

■ In Works

- AZIMUTH - Summer Guardianship Program
- Ops Space Force - Summer Guardianship Program
- Class of 2023 Accessions
- Billet transfer from USAF to USSF



Designed to motivate, inform, rising 3-degree cadets considering a career in the United States Space Force

■ Goals:

- **Motivate** and excite cadets to be spaceminded
 - Soaring/Jump type application
- **Inform** cadets about the USSF
 - Prepare cadets with skills needed to be leaders in the space profession
 - Strengthen competencies desired of any officer



Need the Leatherneck equivalent for Space Force

Motivate - Inform - Influence - Inspire

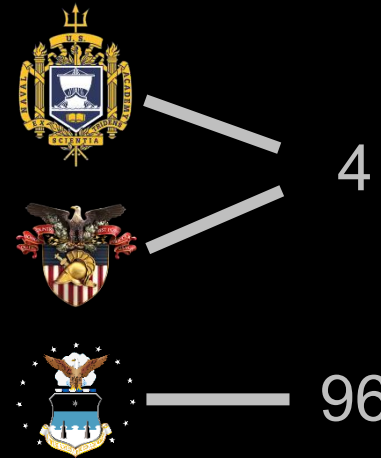
Building the Space Force

Class of 2020 - Class of 2022 Results

Class of 2020 Core + Common AFSCs		
Career-Field (AFSC)	PGL Target	Result
SPACE OPS	60	65
INTELLIGENCE	2	3
CYBERSPACE	4	4
ENGINEER	13	9
ACQUISITION	11	5
Total	90	86

Class of 2021 Core + Common AFSCs		
Career-Field (AFSC)	PGL Target	Result
SPACE OPS	60	61
INTELLIGENCE	2	7
CYBERSPACE	4	6
ENGINEER	14	19
ACQUISITION	18	25
Total	98	118

Class of 2022 Core + Common AFSCs		
Career-Field (AFSC)	PGL Target	Result
SPACE OPS	55	55
INTELLIGENCE	4	4
CYBERSPACE	4	4
ENGINEER	16	16
ACQUISITION	17	21
Total	96	100



USAFA is helping build the foundation of our newest service...the USSF

- 2 Dec - USSF Financial Tasker (Azimuth)
- 3 Dec - Met w/Estes (Azimuth)
- 3 Dec - i5 Highlighted in Air Force Mag
- 9 Dec - Star Harbor Holiday Party (Azimuth)
- 10 Dec - Met w/Delta Solutions (Azimuth)
- 10 Dec - Space Camp/Cyberworx Opportunities
- 14 Dec - SCUBA Site Survey (Azimuth)
- 14 Dec - AVM Godfrey Visit
- 15 Dec - NASA IDIQ Meeting (Azimuth)
- 21 Dec - HireVue (Accessions Interviews)
- 3 Jan - USSF FY22 UFR (Azimuth)
- 11 Jan - 10th CONS (Azimuth)
- 12 Jan - Career Day
- 12 Jan - Raji Chari Interaction
- 12 Jan - Meeting w/AD (Azimuth)



- 13 Jan - Gen Moga Update
- 14 Jan - Col Peter Flores (Warfighter talk)
- 18 Jan - AOG Class Advisory Senate
- 18 Jan - i5 STRAT Talk w/Dean
- 21 Jan - Col Nick Hague (Warfighter talk)
- 21 Jan - Jared Isaacman (2-Lt Bar Distro)
- 27 Jan - Col Hopkins Visit
- 31 Jan - AFA Foundation Meeting
- 31 Jan - Lt Col Gunn-Golkin (Warfighter talk)
- 4 Feb - Lt Gen Whiting Visit
- 8/9 Feb - CSO Conference / Visit (potential Delta/CCs)
- 8-9 Mar - Space Command Academic Fair
- Coming Soon - working w/i5 to become a squadron
- Coming Soon - Azimuth Planning Working Group
- Coming Soon - Capt McGee leading Summer CSOPS
- Coming Soon - STEM Outreach w/Cripple Creek

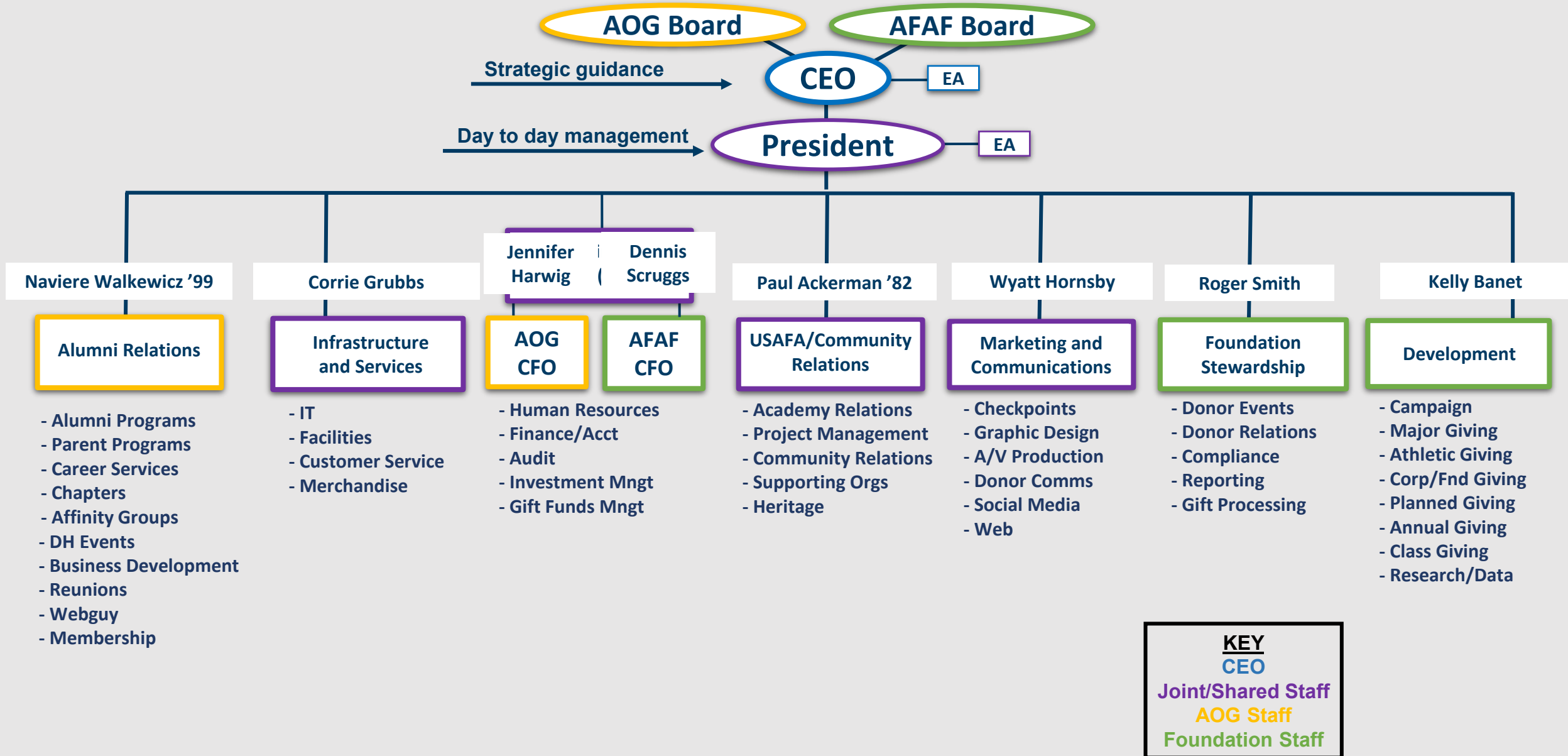




Questions?



Motivate - Inform - Influence - Inspire





ASSOCIATION OF GRADUATES
UNITED STATES AIR FORCE ACADEMY

MEMBERSHIP
— FOR ALL GRADUATES —

85% by Founders Day



QUICK STATS

- Membership for All Graduates launched January 3, 2022
- To get to 85%, we need 12,737 grads to opt in
- As of today, 1275 have opted in (10% of our goal)
- 5 CAS representatives utilized AOG support for class emails

CALL TO ACTION

- Share Membership for All Graduates with your networks
- Upcoming All-Graduate Survey (February)

<https://membership4grads.usafa.org/>



MEMBERSHIP
— FOR ALL GRADUATES —

MEMBERSHIP4GRADS.USAF.AORG



MEMBERSHIP

— FOR ALL GRADUATES —



MEMBERSHIP4GRADS.USAFA.ORG

LOGO BREAKDOWN



GRADUATE



The individual silhouette represents a single Air Force Academy graduate. Combining the individuals into a circular pattern creates a sense of unity and togetherness.

An individual can only accomplish so much on their own, but when joined together anything is possible.

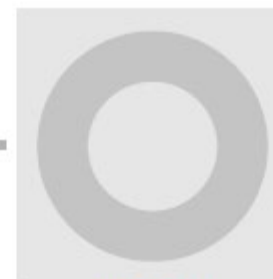


POLARIS STAR



The Polaris Star represents direction, forever pointing to the north, like a landmark or sky marker offering guidance.

It has a symbolic meaning for the Air Force Academy, as the Polaris Star depicts a beacon of inspiration and hope to many.



CIRCLE



The circle is a universal symbol with extensive meaning. It represents the notions of totality, whole-ness, togetherness, the infinite, eternity, and timelessness.

A circle is unbreakable and without end, like the Long Blue Line.



COLORS



The blue and silver colors represent the Air Force Academy.

The color variations may vary depending on application of use. When applicable, a blue gradient may be used to signify the individual diversity that combine to represent the Long Blue Line.



FINAL VERSION



As a combination of the above, the final logo represents the individual graduates forming a tight and interlocking circle around a simplified version of the Polaris Star. This pattern denotes unity and the focus of a common goal. The subtle blue gradient is used to signify the individual diversity of Air Force Academy graduates that combine together to represent the Long Blue Line.