INTEGRITY ISR

APR 2022

COURSE CATALOG

INTEGRITY ISR

WHO WE ARE

Integrity ISR employs a diverse group of former military service members, national security experts, and academic professionals to deliver innovative C4ISR solutions.

WHAT WE DO

Integrity ISR offers a wide-range of services for multi-domain C4ISR strategy, training and operations that enable ISR personnel to operate in any domain under any conditions, from permissive to highly contested/denied environments.

WHY WE DO IT

As former Department of Defense personnel, our number one priority is to strengthen US national security-- by increasing US readiness and lethality, by building the C4ISR capabilities of US allies, and by fostering increased interoperability for tomorrow's coalition warfighters.

> Integrity ISR pairs combat-proven expertise in C4ISR strategy, operations, and personnel with demonstrated success in the international sale of defense services.

TWO WAYS TO TRAIN & LEARN

INTEGRITY ISR

- Customized courses designed to your exact requirements and filled only with your students (limit 24 per class)
- Country-specific Course Development
  - Country-specific geostrategic environment (strategic threats, terrain, desired targets)
  - Country-specific weapons and fuzes
  - Country-specific student backgrounds, missions, levels of expertise
- Multi-Modal Delivery: In your facilities, Online, Live-Virtual

https://integrityisr.com

ISR UNIVERSITY

- Send individuals and small groups to attend ISR courses at ISR University.
- Multi-Modal Delivery: Online, Live-Virtual, or In-Residence at Integrity ISR Facilities
- For groups of more than five students, we will do our best to accommodate date and training mode preferences.

https://isruniversity.com

contact@integrityisr.com

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AW 100 • Foundations of Analytical Writing [40 Academic Hours]

This course reinforces an effective foundation for written communication using practical exercises and instructor-led discussions on grammar rules, verb tenses, theses, paragraph formation, and writing composition. Students compose a series of reports, expository, persuasive essays to identify and execute the steps in the writing process, sentence structure and grammar. Graduates understand the fundamentals of analytical writing (including paragraph frameworks, theses, supporting arguments, views of others) and building recommendations for decision makers.

AW 200 • Analytical Writing [40 Academic Hours]

An analyst, in any industry, must gather evidence and conduct analysis while clearly and concisely communicating and contextualizing that information for decision makers. This course sharpens the analytical writer's edge - we key in on evidence, its meaning, and how to tailor customer-focused assessments. We train and educate new analysts on concepts and types of written communication, standards, analyst-customer relationships, sourcing, uncertainty, and argument mapping. AW 200 graduates writers who effectively utilize evidence, meaning, and assessment to clearly, coherently, and concisely deliver a written product.

AW 300 • Collaborative Analytical Writing [60 Academic Hours]

Collaborative Analytical Writing involves the efforts of multiple people, working as a team, to produce a written product. So much of analysis and critical thinking involves group effort - and writing is no different. Collaborative Analytical Writing offers students the ability to stretch their organization's analytic products, work together as a team, develop a sense of audience, learn the importance of peer review, and lead to a deeper understanding of the problem(s). Collaborative writers are capable of mitigating bias, avoid group think, and arrive at the truth. Graduates will be able to effectively collaborate in a team to present persuasive written arguments that assess facts and assumptions, options, views of others, and logical pathways.

CT 100 • Foundations of Critical Thinking & Structured Analysis [40 Academic Hours]

Analysts must have the requisite skills to synthesize disparate information from multiple sources. This course is designed to develop critical thinking, structured analysis, and data synthesis skills for developing analysts. This course provides methodologies and techniques to improve the quality of reasoning, analysis, objectivity, and decision-making. CT 100 explores the foundations of knowledge, elements of critical thinking, logic, reason, argument mapping, biases, and logical fallacies. Graduates emerge as developing thinkers who are aware of the desired outcome of critical thinking, basic frameworks, and strategies that improve the thinking process, and begin to break down barriers to effective critical thinking.

CT 200 • Critical Thinking for Analysts [40 Academic Hours]

We live in a society that mass produces information with little or no oversight. Not all of it is true, and in fact much of it is biased, logically erroneous, or even false. The challenge is to know how to apply logical methodology to judge the quality of information. Separating opinions from facts, and logical arguments from fallacy is a key skill for leaders and analysts. We are often presented with data from a variety of sources covering topics we know little about and are asked to form an assessment. Critical thinking is a fundamental competency for maneuvering this minefield. This course continues an analyst's development as we learn to recognize and integrate new information, challenge assumptions, form and leverage Socratic questioning, develop inferences from incomplete data, and generate alternate scenarios and conclusions. Graduates become intellectually agile thinkers who are comfortable in ambiguous situations with incomplete or conflicting information.

CT 300 • Advanced Critical Thinking for Analysts [40 Academic Hours]

The true critical thinker and analyst are not as concerned with what direction a question takes as they are in seeking the truth. Advanced Critical Thinking continues the analyst's intellectual journey by imparting the philosophy of knowledge, mitigating cognitive bias, descriptive inference, argumental logic, and causal inference. The course uses tough, contemporary problems to challenge analysts' thinking, while working to set aside biases to arrive at the truth. We use a variety of evaluations to assess progress and understanding, while providing meaningful and in-depth feedback. Graduates possess advanced thinking skills to quickly and thoroughly evaluate complex situations to provide relevant, decision-ready knowledge to a diverse set of customers.

CT 500 • Leading Critical Thinkers [40 Academic Hours]

An effective leader understands their own intellectual tendencies and biases, while creating a healthy environment for tackling tough problems, learning from failure, and being comfortable with ambiguity. In Leading Critical Thinkers, we explore the concepts of metacognition, intentional leadership, fostering innovation, dealing with wicked problems, and the idea of Black Swans. Our goal is to develop leaders who understand their own intellectual tendencies & biases, create healthy environments for tackling tough problems, learn from failure, and comfortable with ambiguity.

CT 600 • Critical Thinking for Learning Professionals [80 Academic Hours]

The true critical thinker cultivates the skills of analysis, interpretation, reflection, evaluation, inference, explanation, problem solving and decision making. But how do you "teach" critical thinking? How do you leverage effective learning strategies, environments, and enculturation to drive towards higher level thinking? This course explores how instructors, facilitators, and evaluators can incorporate critical thinking techniques into their courseware. Our goal is graduates are empowered with the knowledge and capabilities to elevate and normalize critical thinking strategies, concepts, competencies and standards into highly effective learning environments.

CT 700 • Critical Thinking for Executives [16 Academic Hours]

Leaders and Executives looking to create a culture of critical thinking and analysis must first themselves understand, practice, and apply the concepts in all aspects of their thinking, engagements, and decisions. A critically thinking leader understands the impacts of their decisions across the organization, seeks diversity in thought, understands connections between ideas, identifies relevant arguments, and works through inconsistencies in reasoning to make the right decision. Critical Thinking for Executives uses a seminar-based approach to better understand our own intellectual tendencies & biases and create healthy environments for tackling tough problem sets. We discuss wicked problems facing today's organizations, build out concise problem statements, lead an evidence-based discussion of the issues, and develop reasonable course of actions to solve your wicked problems.

DA 100 • Foundations of Data Analytics [40 Academic Hours]

Data Analytics is an ever-evolving discipline focusing on new, predictive modeling techniques with innovative analytic tools to translate data into clear, actionable insights and recommendations. The Foundations of Data Analytics trains and educates analysts on the very essence of what is data, how to mine and shape data, and how to effectively report and visualize the data to draw conclusions. The course uses the Socratic method to enhance student's ability to interact, form meaningful conclusions, and demonstrate critical thinking skills. The course explores various visualization tools and techniques to effectively communicate results in written and verbal formats. Graduates will be able to transform raw data into effective visualizations, draw conclusions, provide predictive analysis, and influence outcomes and decisions.

DA 200 • The Art and Science of Data Analytics [40 Academic Hours]

Data Analytics is as much a science as it is an art. The effective data analyst understands not only how to interpret what the data is telling them but draws inferences and begin to conduct predictive data analytics. This course covers advanced visualization and design techniques designed to clearly and effectively communicate results and demonstrate expected future events, behavior, or trends. Analysts will understand factors that drive uncertainty, examine variables to reduce uncertainty, use predictive analytics to describe future outcomes, and inform ways leaders can influence the outcome.

CYBER | FORCE DEVELOPMENT

CYBER 910 • Cyber Security Strategy [16 Academic Hours]

Taught by former Air Force cyber operations and defense senior leaders, this executive-level course takes senior leaders, operators, decision makers and staff members through both a historical review and the latest thought-leadership on issues of cybersecurity. This course doesn't require technical acumen or information technology expertise, but focuses on a strategic outlook towards cybersecurity, integration with multi-domain operations, dependencies, and other key points of knowledge in this timely and increasingly critical mission area.

EFFECTIVE COMMUNICATION

ENG 200 • English for Cyber [40 Academic Hours]

English is absolutely necessary to work in Cyber, and the English for Cyber Course offers professionals, both military and civilian, focused English language training on the specialized vocabulary and conventions used in spoken and written forms in the field. The course is heavily scenario based, allowing students to actively practice their skills. Developed by Cambridge certified language instructors and cyber professionals, the curriculum focuses on the different communications challenges the field presents: Incident Reporting, Client Communications, Threat Reports, and Management Proposals. The goal is to improve individual and team effectiveness though better written and spoken English communication.

FACULTY DEVELOPMENT

FD 600 • Effective Facilitation for Learning Professionals [40 Academic Hours]

Effective Facilitation transforms highly effective instructors into facilitators - equipped with the techniques to create a learner-centered program. Students will discuss their current teaching philosophy and how to transform it into a facilitator model using combinations of traditional and social learning approaches. Future facilitators will be immersed in the Socratic method of teaching, where learning is based on asking and answering questions - moving from rote memorization to the creation of knowledge and wisdom.

CT 600 • Critical Thinking for Learning Professionals [80 Academic Hours]

The true critical thinker cultivates the skills of analysis, interpretation, reflection, evaluation, inference, explanation, problem solving and decision making. But how do you "teach" critical thinking? How do you leverage effective learning strategies, environments, and enculturation to drive towards higher level thinking? This course explores how instructors, facilitators, and evaluators can incorporate critical thinking techniques into their courseware. Our goal is that graduates are empowered with the knowledge and capabilities to elevate and normalize critical thinking strategies, concepts, competencies and standards into highly effective learning environments.

ISR | ANALYSIS

ISR 100 • ISR Fundamentals [120 Academic Hours]

The ISR Fundamentals Course provides students an introductory level understanding of security, intelligence disciplines, doctrine, EM theory, enemy threat systems, unit operations, ISR processes, preparation of the environment, ISR assets, geospatial information and services, analytic principles, and critical thinking skills. Students will demonstrate the ability to research, develop, and deliver various intelligence products to support air operations. The course contains periodic practical and Capstone exercises to evaluate student performance and understanding.

PED 100 • Intelligence Planning Cycle [40 Academic Hours]

The Intelligence Planning Cycle is a network of interrelated, simultaneous functions that can feed, and be fed by, other functions. The five phases of the framework enable effective use of ISR operations by planning, collecting, processing and exploiting, analyzing and producing, and finally disseminating. Students in this course will be able to understand and apply the Intelligence Planning Cycle within the Air Tasking Order or Targeting Processes to achieve Commander's objectives. Students are evaluated using knowledge and practical application exercises.

EM 110 • Electromagnetic Spectrum Fundamentals [40 Academic Hours]

The electromagnetic (EM) spectrum has increasingly propagated in military importance since the introduction of two-way radios in the very early 1900s. The EM spectrum exists in a large range of frequencies and wavelengths with common applications for military use in the radio, microwave, infrared, and visible regions. The Electromagnetic Spectrum Fundamentals Course introduces students to key concepts, terms, and applications of the EM spectrum. Students will understand how wavelength, frequency, and power shape the military's use of the spectrum. Students will contend with interactive courseware and practical application exercises designed to gauge student performance and understanding.

IADS 100 • IADS Foundations [40 Academic Hours]

Integrated Air Defense Systems, at their very core, bring together sensors, lethal and non-lethal capabilities, battle management, and C4I to defend a nation's airspace. This course explores sensors as well as surface-to-air and air-to-air threat capabilities and employment concepts. Students will understand terms and concepts associated with lethal and non-lethal engagements and demonstrate the ability to provide effective threat assessments for mission planning. IADS Foundations contains knowledge and practical application exercises as well as performance evaluations to improve tactical intelligence support.

IADS 200 • Rethinking IADS [40 Academic Hours]

Integrated Air Defense Systems rely on effective battle management and C4I to harness, and bring together, the full capabilities of a nation's air defense capabilities. This course is designed to improve operational level understanding of how battle management and C4I contribute to nation's ability to defend its airspace. The course considers C4I subsystems, associated functions, and components; tracking mechanisms; as well as battle management types, authorities, engagement zones. Intermediate IADS compels students to think through how each component impacts a commander's ability to control and defend their airspace and associated impacts on the IADS kill chain. The course relies on practical performance exercises and evaluations to improve intelligence support to operations at the tactical and operational levels.

IADS 310 • Advanced IADS Analysis [40 Academic Hours]

China and Russia continue to leverage rapidly modernized military capabilities to defend their airspace using a layered approach. Their technology and tactics, techniques, and procedures have been widely exported making the risk of escalation in any potential conflict all the more likely. This course is designed to improve intelligence personnel's ability to operate, and support operations, in contested environments against a sophisticated and modern Integrated Air Defense System (IADS). The course addresses IADS concepts with a particular focus on battle management and C2; tailorable for specific threat environments to optimize host nation capabilities against likely adversaries in various areas of operations in accordance with host nation requirements. The course includes knowledge and application exercises designed to improve intelligence support to operations at the tactical, operational, and strategic levels.

LDR 110 • Intelligence Officer Fundamentals [60 Academic Days]

The Intelligence Officer Fundamentals Course provides students the opportunity to develop technical intelligence skills to support host nation, peacekeeping, contingency, and coalition mission sets. The course builds critical thinking skills and structured analytical techniques to support predictive and operationally relevant analysis. Officers gain experience in electromagnetic theory, integrated air defense systems, targeting, coalition forces, space and missiles, fundamentals of mission planning, intelligence disciplines, ISR operations, and ISR applications. The course is taught by former USAF certified instructors using a variety of experiential learning and measurement devices. Intelligence Officer Fundamentals contains periodic practical and Capstone exercises to evaluate student performance and understanding.

LDR 410 • Emerging ISR Senior Leadership [24 Academic Hours]

The Emerging ISR Senior Leadership Course enhances the knowledge of ISR leaders on the principles and concepts required for leading within an ISR Enterprise. Students participate in practical exercises and experiential learning designed to enhance knowledge and understanding of policy, strategy, support to operations, and developing ISR personnel. Students will have an advanced understanding of skills and techniques to maximize portfolio investment, capabilities, and synergies between leadership, people, operations, and the ISR Enterprise. The Emerging ISR Senior Leadership Course contains practical application exercises to guide student development and gauge understanding.

LDR 910 • ISR Strategic Leadership [40 Academic Hours]

The ISR Enterprise Leadership Course allows O-6 and above senior leaders the opportunity to synthesize and apply leadership concepts, competencies, and principles required to lead an ISR Enterprise. The course, taught by former USAF general officers, helps prepare leaders new to the intricacies of the ISR world to make the transition from informed ISR consumer to ISR leader. This course requires students to think through strategic problems faced by senior ISR leaders in a complex, dynamic, and combined environment. The course takes a case study approach to highlighting challenges and lessons learned on ISR policy, strategy, support to operations, and building a professional intelligence cadre.

TGT 110 • Fundamentals of Targeting [40 Academic Hours]

Targeting is the process of analyzing target systems and then selecting and prioritizing targets, matching an appropriate response to them, and considering operational requirements and capabilities. This course develops an understanding of key concepts, processes, principles, and aspects of targeting and related roles and responsibilities. It covers key targeting frameworks including D3A (Decide, Detect, Deliver, and Assess), F3EAD (Find, Fix, Finish, Exploit, Analyze, and Disseminate), and EBO (Effects Based Operations) to guide thought processes on design, planning, execution and assessment to address Desired End State and Commander's Objectives. The course will give the students an understanding of the variations and challenges between various typologies of munitions. Fundamentals of Targeting contains embedded practicums and concludes with a Targeting Strategy Capstone exercise.

TGT 210 • Target Development I [40 Academic Hours]

Targets should be tied to objectives across strategic, operational, and tactical levels. This course builds on the Fundamentals of Targeting by exploring Phase 2 of the Targeting Cycle with a focus on Target System Analysis and Prioritization to achieve the Desired End State and meet Commander's Objectives. The course provides skills to analyze, assess, characterize and document potential targets for action including an understanding of Centers of Gravity and use of tools and templates to maximize effectiveness. The course contains embedded practicums and concludes with a Target Systems Analysis Capstone Exercise.

TGT 211 • Target Development II [40 Academic Hours]

Every target has characteristics that form our ability to detect, locate, identify, and classify them for current or future action. This follow-on course to Target Development I examines Entity-Level Target Development, Deliberate Targeting, and Target List Management as part of Phase 2 of the Targeting Cycle. The course enables the understanding of a target's operational importance, considerations for action, and impact on the Target System as a whole. This course will solidify skills empowering students to develop target graphics and documents for both operational and tactical requirements as well as archival and database requirements. Students will be effective in both time sensitive and deliberate targeting. The course contains practicums and concludes with a Deliberate Targeting Capstone Exercise.

TGT 212 • Target Capabilities Analysis [40 Academic Hours]

The Targeting Cycle must demonstrate a logical linkage and analytical reasoning between tasks, effects, objectives, and guidance. This course is designed to develop an understanding of the practical application of options available to a commander in order to effect a target. It refines an analyst's capabilities to evaluate all available capabilities against a target's critical elements and includes target vulnerability analysis, capabilities assignment, feasibility assessment, and effects estimate. The course contains embedded weaponeering practical exercises and concludes with a Capabilities Analysis Capstone Exercise.

TGT 213 • Target Force Assignments [16 Academic Hours]

The Targeting Cycle inevitably moves from theoretical to actual operations informed by considerable focused and detailed intelligence support. This course focuses the first three phases of the Targeting Cycle towards operational employment of capabilities to effect target(s). The course is grounded in developing an understanding of, creation, and approval of an Integrated Prioritized Target List (IPTL). It links capabilities to available forces, sensors, and weapons systems. The course contains embedded practical exercises and concludes with an IPTL Capstone Exercise.

TGT 214 • Mission Planning and Force Execution [24 Academic Hours]

Planning and execution relies on detailed insight into the outcomes, reasoning and assumptions made during previous phases of the Targeting Cycle. This course examines the detailed planning required for force execution and understanding how changes in the operational environment impact the targeting process. The course uses principles of dynamic targeting as a foundational framework. The course contains embedded practicums and concludes with a Dynamic Targeting Capstone Exercise.

TGT 215 • Combat Assessment [40 Academic Hours]

Understanding the results of target engagement requires a knowledge of the commander's objectives, guidance, and desired end state. This course prepares students to assess activities, determine effectiveness, and make recommendations regarding future operations as part of the final step of the Targeting Cycle. The student applies knowledge gained from the first five phases of the Targeting Cycle to conduct Battle Damage Assessment, Munitions Effectiveness Assessments, and re-attack recommendations to inform operational decisions. The course utilizes embedded practical exercises and concludes with a BDA Capstone Exercise.

TGT 310 • Weaponeering and Collateral Damage Assessment [40 Academic Hours]

Achieving the commander's objectives relies on a disciplined, repeatable process to determine the lethal or nonlethal means required to create a desired effect AND determine the undesired consequences and hazards from weapons effects. This course uses established rules of engagement, law of war, and other guidance to allocate weapons and weapons effects against a target(s). Students will examine elements of target vulnerability, delivery accuracy, damage criteria, and weapon reliability against military objectives while considering the potential to create unintentional or incidental injury or damage. Weaponeering and Collateral Damage Assessment utilizes embedded practical exercises and concludes with a Capstone Exercise.

TGT 311 • HVI Target Development [24 Academic Hours]

High Value Individual Target Development relies on network understanding and exploitation, patterns of life analysis, and intelligence driven, precise, detailed targeting operations. This course applies the F3EAD (Find, Fix, Finish, Exploit, Analyze, and Disseminate) methodology using a massed, persistent approach to ISR cued to a multi-source intelligence apparatus to find and fix an HVI's precise location amidst a cluttered environment. The course concludes with an HVI time-sensitive targeting Capstone Exercise.

TGT 312 • Precision Point Mensuration [40 Academic Hours]

Collateral damage may have unintended operational or strategic implications and a key to reducing impacts is the ability to precisely measure any point to determine absolute latitude, longitude, and elevation. Precision Point Mensuration enables students to provide geophysical aimpoints within acceptable accuracy standards using approved sources and specified assurance levels. The course is taught by certified targeting professionals and includes both practical and Capstone exercises to certify student proficiency.

TGT 315 • Targeting Professional [45 Academic Days]

Targeting is the process of analyzing target systems and then selecting and prioritizing targets, matching an appropriate response to them, and considering operational requirements and capabilities. This course develops an understanding of concepts, processes, principles, and aspects of targeting and related roles and responsibilities. It covers key targeting frameworks including D3A (Decide, Detect, Deliver, and Assess), F3EAD (Find, Fix, Finish, Exploit, Analyze, and Disseminate), and EBO (Effects Based Operations) to guide thought processes on design, planning, execution and assessment to address Desired End State and Commander's Objectives. The course follows the Targeting Cycle including weaponeering, collateral damage, and battle damage assessment. Targeting Professional contains embedded practicums and concludes with a Targeting Strategy Capstone exercise.

SPACE

SPACE 100 • Space Operational Environment & Space Systems [64 Academic Hours]

Space-based operations allow global adversaries to develop and field more lethal and agile military forces by simply leveraging available commercial space resources. This course considers basic orbital mechanics, space and associated terrestrial architecture, and develops a deeper understanding of the military and commercial space environment. Graduates will be able to describe space system requirements; best employment options for available space assets; and weave in ongoing and future commercial and/or military operations and their impact on national objectives.

SPACE 105 • Introduction to Space [8 Academic Hours]

This asynchronous, self-paced 8-hour course raises students' awareness of space by examining the evolution of our understanding and use of space, space as warfighting domain, and trends in the emerging space industry. Graduates of this course will be able to describe the characteristics of space and identify the various orbital regimes employed by spacecraft in operation today. Students will be given an opportunity to learn about the various space-based missions such as satellite communications, ISR, position navigation and timing, missile warning, and environmental monitoring. Lastly, the students will gain a deeper appreciation for the capabilities these missions provide to fielded commanders and how their denial can severely impact the operational environment.

SPACE 110 • Introduction to Space Operations Seminar [16 Academic Hours]

Space is no longer the domain of the most technologically advanced countries; people worldwide rely on services provided by, or dependent upon, space assets. National security interests and objectives require commanders to integrate space capabilities, defense, and expertise across all military operations. This course is designed to expose military commanders, and the forces they direct, to the considerations of planning and conducting space operations. The course is implemented as an introduction to concepts and lexicon of space operations, which provides students with the requisite familiarization to support more advanced space training requirements. The basic concepts developed in this course are further explored in our advanced space training curriculum.

SPACE 150 • Space Systems Design [64 Academic Hours]

Continuous improvements in technology and globalization of services led to the development and proliferation of advanced space systems across commercial, civil, and military sectors. Space capabilities underpin infrastructure and services for commerce, agriculture, humanitarian- and disaster-relief efforts, financial transactions, social networks, and national defense. This course builds upon the principles of orbital mechanics and spacecraft design from Space 100. Graduates of this course will clearly articulate how satellites, payloads, and constellations are designed to provide specific capabilities. Students thoroughly explore scientific concepts behind various space-based asset design, including the use of the Electromagnetic Spectrum in remote sensing, frequency allocation and budgets for satellite communications, and the intricacies of precision navigation and timing. Students will design a payload, spacecraft and its associated systems and sub-systems, and constellation for a specific purpose as well as describe the launch and orbital transfer parameters required to ultimately achieve their design.

SPACE 155 • Space Race 2.0 [8 Academic Hours]

This 8-hour asynchronous expands upon the lessons learned in SP 100 or SP 105 and exposes the student to space-based capabilities available to policymakers and militaries around the globe. Students will be introduced to current and emerging kinetic and non-kinetic space threats, the rapid growth in commercialization of the space industry, and the driving forces behind this phenomenon. Finally, the student will be asked to describe the impact of international policy and the commercialization of space on future military acquisitions and capabilities. Potential students should be chosen for continued evaluation as candidates for progression in space-based operations or other related career fields.

SPACE 200 • Space Operations Planning [64 Academic Hours]

Space 200 teaches students to integrate space operations into intelligence and multi-domain operations. Graduates will understand the current international legal regime and multi-national space organizations and the constraints both place on space operations. The course describes the fundamentals of space warfare as described in the US Joint Publication 3-14 and students shall be able to determine space operational requirements to protect coalition space assets and their ability to project combat power. Graduates will develop and analyze courses of action and operational requirements for the best employment of available space assets for ongoing and future military operations and communicate their knowledge to military staff and combat commanders.

SPACE 300 • Adversary Space Capabilities I [64 Academic Hours]

Adversaries rely on a variety of integrated terrestrial, cyber, and space-based capabilities and equipment to deliver information, communications, and global awareness. The rapidly expanding commercial space industry provides low-cost space capabilities and options for nations and actors across the globe to enter a previously inaccessible domain. This course introduces the student to the who, what, and why regarding China, Russia, and commercial space programs. By examining the national objectives of both countries, their current and developing space-based capabilities, and commercial space endeavors, graduates of this course will have a firm understanding of the challenges and opportunities these doctrinally based capabilities pose to US and allied interests. This course examines Chinese, Russian, and commercial industry space capabilities: This course covers Chinese, Russian, and commercial industry space capabilities: National Objectives, Doctrine, and Organization; Space Lift; Space Domain Awareness; Intelligence, Surveillance and Reconnaissance; Position, Navigation and Timing; Satellite lCommunications; and Nuclear Detection, Environmental Monitoring, Missile Warning, and Missile Defense.

SPACE 350 • Adversary Space Capabilities II [64 Academic Hours]

China and Russia threaten the ability of nations around the world to deter aggression, protect national interests, and fight and win future conflicts. Simultaneously, the rapidly expanding commercial space industry provides low-cost space capabilities & options for nations and actors across the globe to enter a previously inaccessible domain. China and Russia are developing a wide array of counter-space weapons to hinder international access to essential space services and purposefully interfere with the electro-magnetic spectrum. Private industry is developing orbital maintenance and orbital debris removal capabilities which will represent future counterspace threats. This course flows through the Threat Continuum providing required insight to ensure freedom of action in space and, when necessary, defend against threats and deny adversary freedom of action in space.

SPACE 900 • The Space Domain - National Security Executive Seminar [3 Days]

Space 900 provides a foundation in space grand strategy to introduce students to space policy and published guidance that shapes strategic initiatives as nation states, allies and partners in space. Space 900 provides an overview of the space environment across all orbital regimes and introduces space capabilities to familiarize students with current examples across military, commercial, allied and civil space. This course provides a stark reality-check on our space vulnerabilities through a review of current adversary counter space capabilities and threat systems that provide a variety of critical services to all nations. We use a series of practical real-world vignettes and examples, to engage the student with situations where space capabilities and space mission areas are applied in support of multi-domain operations. Our discussions and exercises illustrate space interoperability, synchronization, support, and effects across the spectrum of operations. Finally, Space 900 incorporates multiple senior leader perspectives, ranging from the Department of Defense, allied/partner leaders, as well as leaders from commercial space industry. Space 900 offers the unique opportunity to have face-to-face dialogues with space enterprise leaders to enrich your experience and learning with seasoned perspective to achieve a greater awareness of the space environment, threats, and capabilities.

INTEGRITY ISR

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MISSION

Integrity ISR provides innovative solutions for C4ISR strategy, training, operations, analysis, and exploitation.

VISION

Strengthen US and global security by building ISR capabilities, increasing interoperability, and fostering long-term ISR partnerships through security cooperation.

DUNS:
048869303

CAGE Code:
855A9

NAICS:
611512 (Flight Training)
611519 (Other Technical and Trade Schools)

DDTC/ITAR Registered

Facilities Clearance:
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