



The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Wednesday, June 2, 2021**. All option classes on MIAX Emerald have an allocation style of Pro-Rata and billing style of Maker-Taker.

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
ABCL	ABCELLERA BIOLOGICS, INC.	ABCL	No	NASDAQ	4:00	Citadel Securities, LLC	1
ACIC	ATLAS CREST INVESTMENT CORP	ACIC	No	NYSE	4:00	Susquehanna Securities	1
ALPN	ALPINE IMMUNE SCIENCES, INC.	ALPN	No	NASDAQ	4:00	Susquehanna Securities	1
ALUS	ALUSSA ENERGY ACQUISITION CORP	ALUS	No	NYSE	4:00	Wolverine Trading, LLC	1
ANIX	ANIXA BIOSCIENCES, INC.	ANIX	No	NASDAQ	4:00	Citadel Securities, LLC	1
AONE	ONE	AONE	No	NYSE	4:00	Susquehanna Securities	1
APRE	APREA THERAPEUTICS, INC.	APRE	No	NASDAQ	4:00	Susquehanna Securities	1
AREC	AMERICAN RESOURCES CORP	AREC	No	NASDAQ	4:00	Citadel Securities, LLC	1
ARKX	ARK SPACE EXPLORATION & INNOVATION ETF	ARKX	No	BATS	4:00	Susquehanna Securities	1
BEP	BROOKFIELD RENEWABLE PARTNERS LP	BEP	No	NYSE	4:00	Wolverine Trading, LLC	2
BKYI	BIO-KEY INTERNATIONAL, INC.	BKYI	No	NASDAQ	4:00	Citadel Securities, LLC	2
BOWX	BOWX ACQUISITION CORP	BOWX	No	NASDAQ	4:00	Wolverine Trading, LLC	2
BRG	Bluerock Residential Growth REIT, Inc.	BRG	No	AMEX	4:00	Citadel Securities, LLC	2
BWEN	BROADWIND, INC.	BWEN	No	NASDAQ	4:00	Susquehanna Securities	2
CCO	Clear Channel Outdoor Holdings, Inc.	CCO	No	NYSE	4:00	Wolverine Trading, LLC	2
CERT	CERTARA, INC.	CERT	No	NASDAQ	4:00	Citadel Securities, LLC	2
CGNT	COGNYTE SOFTWARE LTD	CGNT	No	NASDAQ	4:00	Wolverine Trading, LLC	2
CIR	CIRCOR International, Inc.	CIR	No	NYSE	4:00	Citadel Securities, LLC	2
CWK	Cushman Wakefield Plc	CWK	No	NYSE	4:00	Citadel Securities, LLC	2
DCRB	DECARBONIZATION PLUS ACQUISITION CORPORATION	DCRB	No	NASDAQ	4:00	Citadel Securities, LLC	3
ELVT	ELEVATE CREDIT, INC	ELVT	No	NYSE	4:00	Wolverine Trading, LLC	3

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ESTE	EARTHSTONE ENERGY, INC.	ESTE	No	NYSE	4:00	Sus quehanna Securities	3
EYES	SECOND SIGHT MED PRODUCTS INC	EYES	No	NASDAQ	4:00	Sus quehanna Securities	3
FBIO	FORTRESS BIOTECH, INC.	FBIO	No	NASDAQ	4:00	Sus quehanna Securities	3
FST	FAST ACQUISTION CORP	FST	No	NYSE	4:00	Wolverine Trading, LLC	3
GBOX	GREENBOX POS	GBOX	No	NASDAQ	4:00	Ci ta del Securities, LLC	4
GHVI	GORES HOLDINGS VI, INC.	GHVI	No	NASDAQ	4:00	Wolverine Trading, LLC	4
GNK	GENCO SHIPPING & TRADING LTD	GNK	No	NYSE	4:00	Ci ta del Securities, LLC	4
GPRK	Geopark Ltd	GPRK	No	NYSE	4:00	Wolverine Trading, LLC	4
GRA	W.R. GRACE & CO.	GRA	No	NYSE	4:00	Sus quehanna Securities	4
GWB	Great Western Bancorp Inc.	GWB	No	NYSE	4:00	Wolverine Trading, LLC	4
HAYW	HAYWARD HOLDINGS INC	HAYW	No	NYSE	4:00	Wolverine Trading, LLC	4
HOFV	HALL OF FAME RESORT & ENTERTAINMENT CO.	HOFV	No	NASDAQ	4:00	Morgan Stanley	4
HSTM	HealthStream Inc	HSTM	No	NASDAQ	4:00	Wolverine Trading, LLC	4
HTBX	HEAT BIOLOGICS, INC.	HTBX	No	NASDAQ	4:00	Sus quehanna Securities	4
HTLD	HEARTLAND EXPRESS, INC.	HTLD	No	NASDAQ	4:00	Ci ta del Securities, LLC	4
IBCP	Independent Bank Corp/MI	IBCP	No	NASDAQ	4:00	Ci ta del Securities, LLC	5
IGAC	IG ACQUISITION CORP	IGAC	No	NASDAQ	4:00	Ci ta del Securities, LLC	5
INFL	HORIZON KINETICS INFLATION BENEFICIARIES ETF	INFL	No	ARCA	4:00	Morgan Stanley	5
JIH	JUNIPER INDUSTRIAL HOLDINGS INC	JIH	No	NYSE	4:00	Sus quehanna Securities	5
KELYA	Kelly Services Inc	KELYA	No	NASDAQ	4:00	Ci ta del Securities, LLC	5
KLDO	KALEIDO BIOSCIENCES, INC.	KLDO	No	NASDAQ	4:00	Ci ta del Securities, LLC	5
KNL	Knoll, Inc.	KNL	No	NYSE	4:00	Sus quehanna Securities	5
KREF	KKR REAL ESTATE FINANCE TRUST INC.	KREF	No	NYSE	4:00	Wolverine Trading, LLC	5
KRON	KRONOS BIO INC	KRON	No	NASDAQ	4:00	Ci ta del Securities, LLC	5
LFTR	LEFTERIS ACQUISITION CORP	LFTR	No	NASDAQ	4:00	Wolverine Trading, LLC	5

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LFVN	LifeVantage Corporation	LFVN	No	NASDAQ	4:00	Citadel Securities, LLC	5
LGHL	LION GROUP HOLDING LTD.	LGHL	No	NASDAQ	4:00	Wolverine Trading, LLC	5
LOV	SPARK NETWORKS SE	LOV	No	AMEX	4:00	Citadel Securities, LLC	5
LUXA	LUX HEALTH TECH ACQUISITION CORP.	LUXA	No	NASDAQ	4:00	Citadel Securities, LLC	5
MRLN	Marlin Business Services Corp.	MRLN	No	NASDAQ	4:00	Citadel Securities, LLC	6
MUDS	MUDRICK CAPITAL ACQUISITION CORPORATION II	MUDS	No	NASDAQ	4:00	Wolverine Trading, LLC	6
NMR	Nomura Holdings, Inc.	NMR	No	NYSE	4:00	Wolverine Trading, LLC	6
NSTB	NORTHERN STAR INVESTMENT CORP	NSTB	No	NYSE	4:00	Citadel Securities, LLC	6
NUAN	Nuance Communications, Inc.	NUAN	No	NASDAQ	4:00	Susquehanna Securities	6
PCSB	PCSB Financial Corp	PCSB	No	NASDAQ	4:00	Wolverine Trading, LLC	7
PCT	PURECYCLE TECHNOLOGIES INC	PCT	No	NASDAQ	4:00	Wolverine Trading, LLC	7
PFMT	Performant Financial Corporation	PFMT	No	NASDAQ	4:00	Citadel Securities, LLC	7
PFPT	Proofpoint Inc	PFPT	No	NASDAQ	4:00	Susquehanna Securities	7
PIXY	SHIFTPIXY, INC.	PIXY	No	NASDAQ	4:00	Susquehanna Securities	7
PLBY	PLBY GROUP, INC.	PLBY	Yes	NASDAQ	4:00	Susquehanna Securities	7
POSH	POSHMARK INC	POSH	No	NASDAQ	4:00	Wolverine Trading, LLC	7
PPD	PPD, INC.	PPD	No	NASDAQ	4:00	Susquehanna Securities	7
PQG	PQ Group Holdings Inc	PQG	No	NYSE	4:00	Citadel Securities, LLC	7
PRAX	PRAXIS PRECISION MEDICINES, INC.	PRAX	No	NASDAQ	4:00	Citadel Securities, LLC	7
PRQR	Proqr Therapeutics N.V.	PRQR	No	NASDAQ	4:00	Susquehanna Securities	7
RAAC	REVOLUTION ACCELERATION ACQUISITION CORP.	RAAC	No	NASDAQ	4:00	Wolverine Trading, LLC	7
RMGB	RMG ACQUISITION CORP. II	RMGB	No	NASDAQ	4:00	Susquehanna Securities	7
RSVA	RODGERS SILICON VALLEY ACQUISITION CORP	RSVA	No	NASDAQ	4:00	Wolverine Trading, LLC	7
RVSB	Riverview Bancorp, Inc.	RVSB	No	NASDAQ	4:00	Susquehanna Securities	7
SCR	SCORE MEDIA AND GAMING INC	SCR	No	NASDAQ	4:00	Susquehanna Securities	8

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SEAH	SPORTS ENTERTAINMENT ACQUISITION CORP	SEAH	No	NYSE	4:00	Sus quehanna Securities	8
SFTW	OSPREY TECHNOLOGY ACQUISITION CORP	SFTW	No	NYSE	4:00	Wolverine Trading, LLC	8
SGBX	SG BLOCKS, INC.	SGBX	No	NASDAQ	4:00	Ci ta del Securities, LLC	8
SGLB	SIGMA LABS, INC.	SGLB	No	NASDAQ	4:00	Sus quehanna Securities	8
SLGG	SUPER LEAGUE GAMING, INC.	SLGG	No	NASDAQ	4:00	Ci ta del Securities, LLC	8
SPNV	SUPERNOVA PARTNERS ACQUISITION COMPANY INC	SPNV	No	NYSE	4:00	Sus quehanna Securities	8
SPRT	Support.com. Inc.	SPRT	No	NASDAQ	4:00	Sus quehanna Securities	8
SY	SO-YOUNG INTERNATIONAL, INC.	SY	No	NASDAQ	4:00	Sus quehanna Securities	8
SYPR	SYPRIS SOLUTIONS, INC.	SYPR	No	NASDAQ	4:00	Sus quehanna Securities	8
TBI	TrueBlue, Inc.	TBI	No	NYSE	4:00	Wolverine Trading, LLC	8
TGB	Taseko Mines Limited	TGB	No	AMEX	4:00	Ci ta del Securities, LLC	8
TLMD	AST SpaceMobile, Inc.	TLMD	No	NASDAQ	4:00	Ci ta del Securities, LLC	8
TSIA	TS INNOVATION ACQUISITIONS CORP.	TSIA	No	NASDAQ	4:00	Sus quehanna Securities	8
TWCT	TWC TECH HOLDINGS II CORP	TWCT	No	NASDAQ	4:00	Sus quehanna Securities	8
VIACA	ViacomCBS Inc. Class A	VIACA	No	NASDAQ	4:00	Ci ta del Securities, LLC	9
VTOL	BRISTOW GROUP INC	VTOL	No	NYSE	4:00	Ci ta del Securities, LLC	9
WRB	BERKLEY(WR) CORP	WRB	No	NYSE	4:00	Wolverine Trading, LLC	10
XPOA	DPCM CAPITAL, INC.	XPOA	No	NYSE	4:00	Sus quehanna Securities	10
YVR	LIQUID MEDIA GROUP LTD.	YVR	No	NASDAQ	4:00	Wolverine Trading, LLC	10
ZH	ZHIHU INC	ZH	No	NYSE	4:00	Ci ta del Securities, LLC	11
ZIM	ZIM INTEGRATED SHIPPING SERVICE	ZIM	No	NYSE	4:00	Wolverine Trading, LLC	11

7 Roszel Road
Fifth Floor
Princeton, New Jersey 08540
① (609) 897-7308



Please contact MIAX Options Listings with any questions.

Listings@MIAXOptions.com

(609) 897-7308