



The option classes listed below will begin trading on the MIAX Options Exchange at the start of trading on **Thursday, October 21, 2021**. All option classes on MIAX Options have an allocation style of Pro-Rata and billing style of Conventional.

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
AFIB	ACUTUS MEDICAL INC	AFIB	No	NASDAQ	4:00	Wolverine Trading, LLC	1
AGL	AGILON HEALTH INC	AGL	No	NYSE	4:00	Wolverine Trading, LLC	1
AGM	Federal Agricultural Mortgage Corp.	AGM	No	NYSE	4:00	Wolverine Trading, LLC	1
AMBP	Ardagh Metal Packaging S.A.	AMBP	No	NYSE	4:00	Citadel Securities, LLC	1
ASLE	AERSALE CORPORATION	ASLE	No	NASDAQ	4:00	Citadel Securities, LLC	1
BCDA	BIOCARDIA, INC	BCDA	No	NASDAQ	4:00	Susquehanna Securities	2
BITO	ProShares Bitcoin Strategy ETF	BITO	No	NYSE Arca	4:00	Wolverine Trading, LLC	2
BROS	DUTCH BROS INC.	BROS	No	NYSE	4:00	Morgan Stanley	2
BRSP	BrightSpire Capital, Inc.	BRSP	No	NYSE	4:00	Citadel Securities, LLC	2
CEI	CAMBER ENERGY, INC.	CEI	No	AMEX	4:00	Susquehanna Securities	3
CLNN	CLENE INC	CLNN	No	NASDAQ	4:00	Citadel Securities, LLC	3
COUR	COURSERA, INC.	COUR	No	NYSE	4:00	Wolverine Trading, LLC	3
CPNG	COUPANG INC	CPNG	No	NYSE	4:00	Wolverine Trading, LLC	3
CURV	TORRID HOLDINGS INC.	CURV	No	NYSE	4:00	Wolverine Trading, LLC	3
CXM	SPRINKLR, INC.	CXM	No	NYSE	4:00	Citadel Securities, LLC	3
CYCC	CYCLACEL PHARMACEUTICALS, INC.	CYCC	No	NASDAQ	4:00	Citadel Securities, LLC	3
DAVA	ENDAVA PLC	DAVA	No	NYSE	4:00	Morgan Stanley	4
DOCN	DIGITALOCEAN HOLDINGS, INC.	DOCN	No	NYSE	4:00	Susquehanna Securities	4
DOLE	DOLE PLS	DOLE	No	NYSE	4:00	Citadel Securities, LLC	4
ECHO	Echo Global Logistics, Inc.	ECHO	No	NASDAQ	4:00	Citadel Securities, LLC	5
EDV	VANGUARD EXTENDED DURATION TREASURY ETF	EDV	No	NYSE Arca	4:00	Citadel Securities, LLC	5
ENVB	ENVERIC BIOSCIENCES, INC.	ENVB	No	NASDAQ	4:00	Susquehanna Securities	5

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FCF	First Commonwealth Financial Corp	FCF	No	NYSE	4:00	Susquehanna Securities	6
FIGS	FIGS, INC.	FIGS	No	NYSE	4:00	Wolverine Trading, LLC	6
FKWL	FRANKLIN WIRELESS CORP.	FKWL	No	NASDAQ	4:00	Susquehanna Securities	6
FRSH	FRESHWORKS INC	FRSH	No	NASDAQ	4:00	Susquehanna Securities	6
FTCV	FINTECH ACQUISITION CORP	FTCV	No	NASDAQ	4:00	Wolverine Trading, LLC	6
FTRP	FIELD TRIP HEALTH LTD	FTRP	No	NASDAQ	4:00	Wolverine Trading, LLC	6
GLBE	GLOBAL ONLINE LTD	GLBE	No	NASDAQ	4:00	Wolverine Trading, LLC	7
GLMD	GALMED PHARMACEUTICALS LTD.	GLMD	No	NASDAQ	4:00	Susquehanna Securities	7
GWH	ESS Tech, Inc.	GWH	No	NYSE	4:00	Citadel Securities, LLC	7
GXO	GXO LOGISTICS INC	GXO	No	NYSE	4:00	Wolverine Trading, LLC	7
HBIO	Harvard Bioscience, Inc.	HBIO	No	NASDAQ	4:00	Citadel Securities, LLC	8
HONE	HARBORONE BANCORP INC	HONE	No	NASDAQ	4:00	Wolverine Trading, LLC	8
HTOO	FUSION FUEL GREEN PLC	HTOO	No	NASDAQ	4:00	Susquehanna Securities	8
IDA	IDACORP, INC.	IDA	No	NYSE	4:00	Wolverine Trading, LLC	9
IMMP	IMMUTEPLTD	IMMP	No	NASDAQ	4:00	Susquehanna Securities	9
ISUN	ISUN, INC.	ISUN	No	NASDAQ	4:00	Wolverine Trading, LLC	9
KRBP	KIROMICBIOPHARMA, INC.	KRBP	No	NASDAQ	4:00	Citadel Securities, LLC	10
KRYS	KRYSTAL BIOTECH, INC.	KRYS	No	NASDAQ	4:00	Citadel Securities, LLC	10
LMB	LIMBACH HOLDINGS, INC.	LMB	No	NASDAQ	4:00	Susquehanna Securities	11
LWLG	LIGHTWAVE LOGIC, INC.	LWLG	No	NASDAQ	4:00	Wolverine Trading, LLC	11
NAPA	DUCKHORN PORTFOLIO, INC.	NAPA	No	NYSE	4:00	Wolverine Trading, LLC	13
NEON	NEONODE INC.	NEON	No	NASDAQ	4:00	Susquehanna Securities	13
NEXT	NEXTDECADE CORP.	NEXT	No	NASDAQ	4:00	Susquehanna Securities	13
NSPR	INSPIREMD, INC.	NSPR	No	NASDAQ	4:00	Citadel Securities, LLC	13
NXTD	Nxt-ID, Inc.	NXTD	No	NASDAQ	4:00	Citadel Securities, LLC	13
OIL	IPATH PURE BETA CRUDE OIL ETN	OIL	No	NYSE Arca	4:00	Wolverine Trading, LLC	14



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ONON	ON HOLDING AG	ONON	No	NYSE	4:00	Wolverine Trading, LLC	14
ONTX	ONCONOVA THERAPEUTICS INC.	ONTX	No	NASDAQ	4:00	Susquehanna Securities	14
OSCR	OSCAR HEALTH INC.	OSCR	No	NYSE	4:00	Wolverine Trading, LLC	14
PATH	UIPATH INC	PATH	No	NYSE	4:00	Morgan Stanley	14
PSCE	INVESCO S&P SMALLCAP ENERGY ETF	PSCE	No	NASDAQ	4:00	Citadel Securities, LLC	14
PTGX	PROTAGONIST THERAPEUTICS, INC.	PTGX	No	NASDAQ	4:00	Susquehanna Securities	14
PWSC	POWERSCHOOL HOLDINGS INC	PWSC	No	NYSE	4:00	Susquehanna Securities	14
QADA	QAD Inc.	QADA	No	NASDAQ	4:00	Susquehanna Securities	15
QUBT	QUANTUM COMPUTING INC.	QUBT	No	NASDAQ	4:00	Citadel Securities, LLC	15
RAAS	CLOOPEN GROUP HOLDING LTD.	RAAS	No	NYSE	4:00	Citadel Securities, LLC	15
RCAT	RED CAT HOLDINGS, INC.	RCAT	No	NASDAQ	4:00	Citadel Securities, LLC	15
RCMT	RCM Technologies, Inc.	RCMT	No	NASDAQ	4:00	Wolverine Trading, LLC	15
RKLY	Rockley Photonics Holdings Limited	RKLY	No	NYSE	4:00	Wolverine Trading, LLC	15
SBTX	SILVERBACK THERAPEUTICS, INC.	SBTX	No	NASDAQ	4:00	Susquehanna Securities	16
SNCY	SUN COUNTRY AIRLINES HOLDINGS, INC.	SNCY	No	NASDAQ	4:00	Susquehanna Securities	16
SPHB	Invesco S&P 500 High Beta ETF	SPHB	No	NYSE Arca	4:00	Citadel Securities, LLC	16
SPOK	Spok Holdings, Inc.	SPOK	No	NASDAQ	4:00	Citadel Securities, LLC	16
TBBK	Bancorp Inc/DE	TBBK	No	NASDAQ	4:00	Citadel Securities, LLC	17
TOST	TOAST, INC	TOST	No	NYSE	4:00	Wolverine Trading, LLC	17
UAMY	US Antimony Corp.	UAMY	No	AMEX	4:00	Citadel Securities, LLC	18
URNM	NORTHSHORE GLOBAL URANIUM MININGETF	URNM	No	NYSE Arca	4:00	Susquehanna Securities	18
VINO	GAUCHO GROUP HOLDINGS, INC.	VINO	No	NASDAQ	4:00	Susquehanna Securities	19
VRNA	VERONA PHARMA PLC	VRNA	No	NASDAQ	4:00	Citadel Securities, LLC	19
VSCO	VICTORIAS SECRET & CO	VSCO	No	NYSE	4:00	Morgan Stanley	19
VZIO	VIZIO HOLDING CORP	VZIO	No	NYSE	4:00	Wolverine Trading, LLC	19
WEBR	WEBER, INC.	WEBR	No	NYSE	4:00	Wolverine Trading, LLC	19



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WKSP	WORKSPORT, LTD	WKSP	No	NASDAQ	4:00	Susquehanna Securities	19
WWD	Woodward, Inc.	WWD	No	NASDAQ	4:00	Wolverine Trading, LLC	19
WYY	WIDEPOINT CORPORATION	WYY	No	AMEX	4:00	Wolverine Trading, LLC	19
YALA	YALLA GROUP LIMITED	YALA	No	NYSE	4:00	Wolverine Trading, LLC	20
YSG	YATSEN HOLDING LTD.	YSG	No	NYSE	4:00	Susquehanna Securities	20

Please contact MIAX Options Listings with any questions.

Listings@MIAXOptions.com

(609) 897-7308