

Plan and Investment Notice

UNIVERSITY OF SAN FRANCISCO VOLUNTARY RETIREMENT PLAN

Your participation in your employer's retirement plan is the first step to ensuring adequate retirement income. The purpose of this Plan and Investment Notice is to help you make informed decisions when managing your retirement account. It contains important information regarding your plan's services, investments and expenses. **While no action is required at this time**, please review the notice and file it with your other retirement plan documents for future reference.

Section I: Summary of Plan Services and Costs

This section provides important information to assist you in making decisions related to your participation in your employer's plan. It outlines the services available under this plan, explains your right to select the investments for your account, and any fees and plan restrictions that may apply.

Section II: Investment Options Comparative Chart

This section is designed to make it easier for you to compare investments that align with your retirement goals. It provides detailed information about your plan's investment options, including long-term performance and expenses.

Summary of Plan Services and Costs

TIAA has been selected to provide retirement services and investment options to employees in the plan. There are costs associated with these services and investments, some of which may be paid by you. In addition to explaining how to direct your investments, this section details the administrative and individual expenses associated with your plan.

RIGHT TO DIRECT INVESTMENTS

You may specify how your future contributions to the retirement plan are invested or make changes to existing investments in your plan as described in the Summary Plan Document. These changes can be made:

- 1. Online by visiting **TIAA.org**
- 2. By phone at **800 842-2252**, weekdays, 8 a.m. to 10 p.m. (ET)

RESTRICTIONS

Changes to existing investments usually take place at the close of the business day if a change is requested prior to 4:00 p.m. (ET). Refer to Section II: Investment Options Comparative Chart for investment-specific restrictions.

ADDITIONAL RIGHTS AND PRIVILEGES

Certain investments that you may hold may give you the opportunity to vote on proposals. If and when such opportunities arise, you will receive a notice with instructions on how to take advantage of what is being offered.

INVESTMENT OPTIONS

A variety of investment options are available in the plan. Please refer to Section II: Investment Options Comparative Chart for a current list of investment options available to you. Additional information, as well as up-to-date investment performance, is available online at www.TIAA.org/planinvestmentoptions. After entering your plan ID, 100976, you will be directed to plan and investment information.

SELF-DIRECTED BROKERAGE

A TIAA Brokerage Service is available that permits you to use investments that have not been selected for your plan and are not monitored. This service permits you to use a wide variety of investments but you are expected to prudently select and monitor any investments that you make through the brokerage service. This means that you must have the skill and experience or use an independent expert to advise you. Depending upon your plan's characteristics, investments available within the brokerage service may or may not include mutual funds, equities, bonds and certificate of deposits (403(b) plans are limited to mutual funds). Generally, there are fees associated with investment transactions (purchasing or selling), as well as minimum transaction amount requirements. Before purchasing or selling an investment you should understand any applicable fees, including fees that will be associated with your transaction such as

commissions or other charges for purchasing and selling the investment. To request a transaction, and to learn more about the brokerage service including fees call 800-927-3059 or visit https://www.tiaa.org/public/pdf/forms/SDA_Customer_Account_Agreement.pdf.

COST OF PLAN SERVICES

There are three categories of services provided to your plan:

1. GENERAL ADMINISTRATIVE SERVICES

General administrative services include recordkeeping, legal, accounting, consulting, investment advisory and other plan administration services. Some of the expenses for general administrative services are fixed and other expenses such as legal or accounting may vary from year to year. These costs are allocated to each participant in a uniform way.

In addition to investment expenses you pay, there is a Plan Servicing Fee charged to specific investments which is used to pay for your Plan's record keeping and other plan services. Also, your Plan provides credits to certain investments so that plan participants share equally in the cost of such expenses. For more details, please refer to the "Shareholder Fees & Restrictions" column of Table 1 in Section II: Investment Options Comparative Chart.

2. SPECIFIC INVESTMENT SERVICES

Each investment offered within the plan charges a fee for managing the investment and for associated services. This is referred to as the expense ratio and is paid by all participants in that investment in proportion to the amount of their investment. The specific expense ratio for each investment option is listed in Section II: Investment Options Comparative Chart.

3. PERSONALIZED SERVICES

Personalized services provide access to a number of plan features and investments that you pay for, only if you use them. The personalized services used most often are:

Loan Maintenance	\$25 annual fee per active loan. This applies to plan(s): 100976
Collateralized Loans	The cost to you based upon the difference between what you earn on collateral and what you pay in interest. This applies to plan(s):

	100976
Retirement Plan Loan - Origination Fee	\$75 per loan initiated for general purpose, \$125 for a residential loan. This applies to plan(s): 100976
Brokerage	Certain charges may apply. Please review the Customer Account Agreement provided in the Self-Directed Brokerage section of this document. Your plan may limit the eligible investments within the self-directed brokerage account. This applies to plan(s): 100976
Qualified Domestic Relations Orders (QDRO)	No charge
Sales Charges, Purchase, Withdrawal And Redemption Fees For Certain Investments	Certain charges may apply. See Section II: Investment Options Comparative Chart or the prospectus for applicable charges.

Investment Options Comparative Chart

Your plan offers a variety of professionally managed investments. One of the benefits of the plan is that you get to decide how your contributions are invested. When making investment decisions, you should keep in mind how long you have until retirement, your tolerance for risk, how this retirement plan fits into your overall financial picture, and the impact of fees. The information on the following pages will help you compare the investment options and make more informed decisions about your retirement plan.

Part A – Performance and Fee Information

Part A consists of performance and fee information for your plan's investment options. It shows you how well the investments have performed in the past as well as any fees and expenses you will pay if you invest in a particular option.

For more information on the impact of fees and expenses associated with your plan, refer to Section I: Summary of Plan Services and Costs or visit the DOL's website at www.dol.gov/sites/default/files/ebsa/about-ebsa/our-activities/resource-center/publications/a-look-at-401k-plan-fees.pdf. Fees are only one of many factors to consider when making an investment decision.

Part B– Annuity Income Information

Part B contains information about the annuity options available within your employer's retirement plan.

Part A. Performance and Fee Information

The following chart lists your plan's investment options whose value may change based on market fluctuations. When evaluating performance of your variable investment options, you should consider comparing the returns of each investment to an appropriate benchmark, which is included in the chart. A benchmark is a generally accepted unmanaged group of securities whose performance is used as a standard point of reference to measure and compare investment gains or losses for variable return investments. Keep in mind that you may not invest in the benchmark indexes which are shown for comparative purposes only. For investments that use a blend of stocks and bonds to limit risk, such as Target Date or Multi-Asset funds, a difference from the benchmark may be due to a difference in the proportion of stocks to bonds in the fund when compared to the benchmark. Benchmark information for fixed-return investments is not provided in this chart. Past performance does not indicate how an investment will perform in the future.

For the most up-to-date information about your investment options, prospectuses for available TIAA investments and other helpful resources, visit www.TIAA.org/planinvestmentoptions. After entering your plan ID, 100976, you will be directed to plan and investment information.

Visit www.tiaa.org for information and resources to help you make informed decisions. To request additional plan information or a paper copy of information available online, free of charge, contact TIAA at 800 842-2252 or write to us at TIAA, P.O. Box 1259 , Charlotte, NC, 28201.

Table 1 – Variable Return Investment Performance as of September 30, 2022

Investment Name / Benchmark	Morningstar Category	Ticker Symbol	Inception Date	Average Annual Total Returns/Benchmark			Total Annual Operating Expenses (%/Per \$1000)		
				1 Yr.	5 Yr.	10 Yr. or Since fund Inception if less than 10 years	Gross	Net	Shareholder Fees & Restrictions
Equities									
Mutual Fund									
MFS International Diversification Fund R6	Foreign Large Blend	MDIZX	10/02/2017	-25.34%	-	1.35%	0.73% \$7.30	0.72% \$7.20	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
MSCI ACWI Ex USA NR USD				-25.17%		-0.81%	Contractual Waiver Exp: 09/30/2023		
TIAA-CREF International Equity Index Fund Institutional	Foreign Large Blend	TCIEX	10/01/2002	-25.06%	-0.85%	3.76%	0.05% \$0.50	0.05% \$0.50	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
MSCI EAFE NR USD				-25.13%	-0.84%	3.67%	Contractual Cap Exp: 02/28/2023		
American Funds Washington Mutual Investors Fund R6	Large Blend	RWMGX	05/01/2009	-8.29%	8.30%	11.03%	0.26% \$2.60	0.26% \$2.60	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P 500 TR USD				-15.47%	9.24%	11.70%			
Vanguard Institutional Index Fund Institutional	Large Blend	VINIX	07/31/1990	-15.50%	9.21%	11.67%	0.04% \$0.40	0.04% \$0.40	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P 500 TR USD				-15.47%	9.24%	11.70%			
JPMorgan Large Cap Growth Fund R6	Large Growth	JLGMX	11/30/2010	-21.86%	15.24%	14.82%	0.52% \$5.20	0.44% \$4.40	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Russell 1000 Growth TR USD				-22.59%	12.17%	13.70%	Contractual Waiver Exp: 10/31/2022		
AB Discovery Growth Fund Z	Mid-Cap Growth	CHCZX	05/30/2014	-36.32%	7.51%	8.41%	0.64% \$6.40	0.64% \$6.40	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Russell 2500 Growth TR USD				-29.39%	6.30%	7.90%			

Investment Name / Benchmark	Morningstar Category	Ticker Symbol	Inception Date	Average Annual Total Returns/Benchmark			Total Annual Operating Expenses (%/Per \$1000)		Shareholder Fees & Restrictions
				1 Yr.	5 Yr.	10 Yr. or Since fund Inception if less than 10 years	Gross	Net	
Vanguard Extended Market Index Fund Institutional	Mid-Cap Growth	VIEIX	07/07/1997	-29.55%	4.83%	9.43%	0.05%	0.05%	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Completion TR USD				-29.62%	4.72%	9.31%	\$0.50	\$0.50	
American Century Mid Cap Value Fund R6	Mid-Cap Value	AMDVX	07/26/2013	-6.67%	5.32%	8.54%	0.62%	0.62%	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Russell Mid Cap Value TR USD				-13.56%	4.76%	7.48%	\$6.20	\$6.20	
Neuberger Berman Real Estate Fund R6	Real Estate	NRREX	03/15/2013	-16.97%	5.50%	6.54%	0.93%	0.75%	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
FTSE Nareit All Equity REITs TR USD				-16.27%	4.10%	6.25%	\$9.30	\$7.50	
Goldman Sachs Small Cap Value R6	Small Blend	GSSUX	07/31/2015	-16.84%	2.07%	4.80%	Contractual Waiver Exp: 08/31/2025		An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Russell 2000 Value TR USD				-17.69%	2.87%	5.96%	0.98%	0.95%	
TIAA-CREF Quant Small- Cap Equity Fund Institutional	Small Blend	TISEX	10/01/2002	-18.05%	4.58%	9.67%	\$9.80	\$9.50	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Russell 2000 TR USD				-17.69%	2.87%	5.96%	Contractual Waiver Exp: 12/29/2022		
TIAA-CREF Quant Small- Cap Equity Fund Institutional	Small Blend	TISEX	10/01/2002	-18.05%	4.58%	9.67%	0.41%	0.41%	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Russell 2000 TR USD				-23.50%	3.55%	8.55%	\$4.10	\$4.10	
Variable Annuity							Contractual Cap Exp: 02/28/2023		
CREF Stock Account R2	Allocation--85%+ Equity	QCSTPX	04/24/2015	-21.41%	4.73%	8.24%	0.29%	0.29%	An annual plan servicing credit of 0.09% is credited on a quarterly basis. Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.
Morningstar Aggressive Target Risk TR USD				-20.11%	4.26%	7.52%	\$2.90	\$2.90	
CREF Global Equities Account R2	Global Large- Stock Blend	QCGLPX	04/24/2015	-21.97%	4.44%	7.62%	0.28%	0.28%	An annual plan servicing credit of 0.09% is credited on a quarterly basis. Contributions and Transfers in not allowed. Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.
MSCI ACWI NR USD				-20.66%	4.44%	7.28%	\$2.80	\$2.80	

Investment Name / Benchmark	Morningstar Category	Ticker Symbol	Inception Date	Average Annual Total Returns/Benchmark			Total Annual Operating Expenses (%/Per \$1000)		Shareholder Fees & Restrictions
				1 Yr.	5 Yr.	10 Yr. or Since fund Inception if less than 10 years	Gross	Net	
CREF Equity Index Account R2	Large Blend	QCEQPX	04/24/2015	-17.73%	8.39%	11.08%	0.22% \$2.20	0.22% \$2.20	An annual plan servicing credit of 0.09% is credited on a quarterly basis. Contributions and Transfers in not allowed. Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.
<i>Russell 3000 TR USD</i>				-17.63%	8.62%	11.39%			
CREF Growth Account R2	Large Growth	QCGRPX	04/24/2015	-30.30%	8.86%	11.99%	0.27% \$2.70	0.27% \$2.70	An annual plan servicing credit of 0.09% is credited on a quarterly basis. Contributions and Transfers in not allowed. Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.
<i>Russell 1000 Growth TR USD</i>				-22.59%	12.17%	13.70%			
Fixed Income									
Mutual Fund									
BlackRock High Yield Bond Portfolio K	High Yield Bond	BRHYX	11/19/1998	-13.09%	1.84%	4.23%	0.50% \$5.00	0.49% \$4.90	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
<i>Bloomberg US High Yield 2% Issuer Cap TR USD</i>				-14.15%	1.56%	3.94%	Contractual Waiver Exp: 06/30/2023		
PIMCO Real Return Fund Institutional	Inflation-Protected Bond	PRRIX	01/29/1997	-12.34%	1.85%	0.87%	0.47% \$4.70	0.47% \$4.70	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
<i>Bloomberg US Treasury US TIPS TR USD</i>				-11.57%	1.95%	0.98%			
PIMCO Total Return Fund Institutional	Intermediate Core-Plus Bond	PTTRX	05/11/1987	-15.65%	-0.30%	1.05%	0.46% \$4.60	0.46% \$4.60	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
<i>Bloomberg US Aggregate Bond TR USD</i>				-14.60%	-0.27%	0.89%			
Vanguard Total Bond Market Index Fund Institutional	Intermediate- Term Bond	VBPIX	09/18/1995	-14.65%	-0.24%	0.86%	0.04% \$0.40	0.04% \$0.40	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
<i>Bloomberg US Aggregate Float Adjusted TR USD</i>				-14.61%	-0.23%	0.91%			
Variable Annuity									
CREF Inflation-Linked Bond Account R2	Inflation-Protected Bond	QCILPX	04/24/2015	-6.51%	2.22%	0.89%	0.23% \$2.30	0.23% \$2.30	An annual plan servicing credit of 0.09% is credited on a quarterly basis. Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.

Investment Name / Benchmark	Morningstar Category	Ticker Symbol	Inception Date	Average Annual Total Returns/Benchmark			Total Annual Operating Expenses (%/Per \$1000)		Shareholder Fees & Restrictions
				1 Yr.	5 Yr.	10 Yr. or Since fund Inception if less than 10 years	Gross	Net	
Bloomberg US Treasury Inflation Notes 1-10 Yr TR USD				-7.44%	2.27%	1.17%			
CREF Core Bond Account R2	Intermediate- Term Bond	QCBMPX	04/24/2015	-14.90%	-0.16%	1.02%	0.28% \$2.80	0.28% \$2.80	An annual plan servicing credit of 0.09% is credited on a quarterly basis. Contributions and Transfers in not allowed. Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.
Bloomberg US Aggregate Bond TR USD				-14.60%	-0.27%	0.89%			
Money Market									
Mutual Fund									
TIAA-CREF Money Market Fund Institutional 7-day current annualized yield 2.38% as of 09/27/2022 7-day effective annualized yield 2.41% as of 09/27/2022	Money Market- Taxable	TCIXX	07/01/1999	0.62%	1.02%	0.60%	0.13% \$1.30	0.13% \$1.30	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis.
iMoneyNet Money Fund Averages - All Government				0.53%	0.84%	0.46%	Contractual Cap Exp: 07/31/2023		
Variable Annuity									
CREF Money Market Account R2 7-day current annualized yield 1.70% as of 09/27/2022 7-day effective annualized yield 1.72% as of 09/27/2022	Money Market- Taxable	QCMPX	04/24/2015	0.39%	0.84%	0.45%	0.24% \$2.40	0.24% \$2.40	An annual plan servicing credit of 0.09% is credited on a quarterly basis.
iMoneyNet Money Fund Averages - All Government				0.53%	0.84%	0.46%			
Multi-Asset									
Mutual Fund									
TIAA-CREF Lifecycle Retirement Income Fund Institutional	Allocation--30% to 50% Equity	TLRIX	11/30/2007	-14.53%	2.50%	4.37%	0.53% \$5.30	0.37% \$3.70	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date Retirement Income TR USD				-13.31%	1.88%	3.23%	Contractual Waiver Exp: 09/30/2022		

Investment Name / Benchmark	Morningstar Category	Ticker Symbol	Inception Date	Average Annual Total Returns/Benchmark			Total Annual Operating Expenses (%/Per \$1000)		
				1 Yr.	5 Yr.	10 Yr. or Since fund Inception if less than 10 years	Gross	Net	Shareholder Fees & Restrictions
TIAA-CREF Lifecycle 2010 Fund Institutional	Target Date 2000- 2010	TCTIX	01/17/2007	-14.45%	2.56%	4.70%	0.52% \$5.20	0.37% \$3.70	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2010 TR USD				-13.60%	2.33%	3.99%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2015 Fund Institutional	Target-Date 2015	TCNIX	01/17/2007	-14.93%	2.79%	5.13%	0.53% \$5.30	0.38% \$3.80	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2015 TR USD				-13.95%	2.61%	4.65%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2020 Fund Institutional	Target-Date 2020	TCWIX	01/17/2007	-15.66%	2.94%	5.62%	0.53% \$5.30	0.39% \$3.90	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2020 TR USD				-14.75%	2.64%	5.11%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2025 Fund Institutional	Target-Date 2025	TCYIX	01/17/2007	-16.62%	3.27%	6.20%	0.56% \$5.60	0.41% \$4.10	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2025 TR USD				-15.16%	3.24%	5.80%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2030 Fund Institutional	Target-Date 2030	TCRIX	01/17/2007	-17.66%	3.54%	6.73%	0.58% \$5.80	0.42% \$4.20	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2030 TR USD				-16.23%	3.58%	6.34%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2035 Fund Institutional	Target-Date 2035	TCIIX	01/17/2007	-18.81%	3.79%	7.23%	0.60% \$6.00	0.43% \$4.30	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2035 TR USD				-17.42%	3.92%	6.83%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2040 Fund Institutional	Target-Date 2040	TCOIX	01/17/2007	-19.57%	4.08%	7.64%	0.62% \$6.20	0.44% \$4.40	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2040 TR USD				-18.21%	4.16%	7.18%	Contractual Waiver Exp: 09/30/2022		

Investment Name / Benchmark	Morningstar Category	Ticker Symbol	Inception Date	Average Annual Total Returns/Benchmark			Total Annual Operating Expenses (%/Per \$1000)		
				1 Yr.	5 Yr.	10 Yr. or Since fund Inception if less than 10 years	Gross	Net	Shareholder Fees & Restrictions
TIAA-CREF Lifecycle 2045 Fund Institutional	Target-Date 2045	TTFIX	11/30/2007	-20.32%	4.36%	7.84%	0.64% \$6.40	0.45% \$4.50	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2045 TR USD				-18.70%	4.27%	7.40%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2050 Fund Institutional	Target-Date 2050	TFTIX	11/30/2007	-20.67%	4.35%	7.88%	0.65% \$6.50	0.45% \$4.50	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2050 TR USD				-18.88%	4.35%	7.61%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2055 Fund Institutional	Target-Date 2055	TTRIX	04/29/2011	-20.79%	4.39%	7.93%	0.68% \$6.80	0.45% \$4.50	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2055 TR USD				-18.94%	4.39%	7.74%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2060 Fund Institutional	Target-Date 2060	TLXNX	09/26/2014	-20.79%	4.46%	6.16%	0.71% \$7.10	0.45% \$4.50	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2060 TR USD				-18.99%	4.44%	5.84%	Contractual Waiver Exp: 09/30/2022		
TIAA-CREF Lifecycle 2065 Fund Institutional	Target-Date 2065+	TSFTX	09/30/2020	-20.65%	-	0.60%	3.74% \$37.40	0.45% \$4.50	An annual plan servicing fee of 0.06% is charged and deducted on a quarterly basis. Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
S&P Target Date 2065+ TR USD				-18.84%		1.69%	Contractual Waiver Exp: 09/30/2022		
Variable Annuity									
CREF Social Choice Account R2	Allocation--50% to 70% Equity	QCSCPX	04/24/2015	-17.75%	3.71%	5.97%	0.25% \$2.50	0.25% \$2.50	An annual plan servicing credit of 0.09% is credited on a quarterly basis. Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.
Morningstar Moderate Target Risk TR USD				-18.20%	2.95%	5.17%			
Real Estate									
Variable Annuity									
TIAA Real Estate Account	N/A	QREARX	10/02/1995	18.78%	7.97%	8.01%	0.77% \$7.70	0.77% \$7.70	An annual plan servicing credit of 0.18% is credited on a quarterly basis. Transfers out: Limit 1 per quarter. Limitations may apply to any transaction resulting in a balance > \$150,000.

Investment Name / Benchmark S&P 500 TR USD	Morningstar Category	Ticker Symbol	Inception Date	Average Annual Total Returns/Benchmark			Total Annual Operating Expenses (%/Per \$1000)		
				1 Yr.	5 Yr.	10 Yr. or Since fund Inception if less than 10 years	Gross	Net	Shareholder Fees & Restrictions
				-15.47%	9.24%	11.70%			

Table 1 shows fee and expense information for the investment options listed including the Total Annual Operating Expenses expressed as a percentage and a dollar amount based upon a \$1,000 accumulation both as net and gross of expenses. Total Annual Operating Expenses is a measure of what it costs to operate an investment, expressed as a percentage of its assets, as a dollar amount or in basis points. These are costs the investor pays through a reduction in the investment's rate of return.

Table 2 – Fixed Return Investments

The following chart lists the plan's investment options that have a fixed or stated rate of return.

Name/Type/Option	Return	Term	Additional Information
Guaranteed Annuity			
TIAA Traditional-Group Retirement Annuity	6.25%	Through 02/28/2023	<p>An annual plan servicing credit of 0.09% is credited on a quarterly basis. The current rate shown applies to premiums remitted during the month of November 2022 and will be credited through 2/28/2023. This rate is subject to change in subsequent months. Up-to-date rate of return information is available on your plan-specific website noted above or at 800-842-2733. TIAA Traditional guarantees your principal and a minimum annual interest rate. The guaranteed minimum interest rate is 3.00%, and is effective while the funds remain in the contract. The account also offers the opportunity for additional amounts in excess of the guaranteed minimum interest rate. When declared, additional amounts remain in effect for the twelve-month period that begins each March 1 for accumulating annuities and January 1 for payout annuities. Additional amounts are not guaranteed for the future years. All guarantees are subject to TIAA's claims paying ability. TIAA Traditional is designed primarily to help meet your long-term retirement income needs; it is not a short-term savings vehicle. Therefore, some contracts require that benefits are paid in installments over time and/or may impose surrender charges on certain withdrawals. TIAA has rewarded participants who save in contracts where benefits are paid in installments over time instead of in an immediate lump-sum by crediting higher interest rates, typically 0.50% to 0.75% higher. Higher rates will lead to higher account balances and more retirement income for you. For Group Retirement Annuity (GRA) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals are available from the TIAA Traditional account only within 120 days after termination of employment and are subject to a 2.5% surrender charge. All other withdrawals and transfers from the account must be paid in ten annual installments. After termination of employment additional income options may be available including income for life, income for a fixed period, interest-only payments and IRS required minimum distributions.</p>
TIAA Traditional-Group Supplemental Retirement Annuity	5.50%	Through 02/28/2023	<p>An annual plan servicing credit of 0.09% is credited on a quarterly basis. The current rate shown applies to premiums remitted during the month of November 2022 and will be credited through 2/28/2023. This rate is subject to change in subsequent months. Up-to-date rate of return information is available on your plan-specific website noted above or at 800-842-2733. TIAA Traditional guarantees your principal and a minimum annual interest rate. The guaranteed minimum interest rate is 3.00%, and is effective while the funds remain in the contract. The account also offers the opportunity for additional amounts in excess of the guaranteed minimum interest rate. When declared, additional amounts remain in effect for the twelve-month period that begins each March 1 for accumulating annuities and January 1 for payout annuities. Additional amounts are not guaranteed for the future years. All guarantees are subject to TIAA's claims paying ability. For Group Supplemental Retirement Annuity (GSRA) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals and transfers are available from the TIAA Traditional account without any restrictions or charges. After termination of employment additional income options may be available including income for life, income for a fixed period of time, and IRS required minimum distribution payments.</p>

Name/Type/Option	Return	Term	Additional Information
TIAA Traditional-Retirement Annuity	6.25%	Through 02/28/2023	<p>An annual plan servicing credit of 0.09% is credited on a quarterly basis. The current rate shown applies to premiums remitted during the month of November 2022 and will be credited through 2/28/2023. This rate is subject to change in subsequent months. Up-to-date rate of return information is available on your plan-specific website noted above or at 800-842-2733. TIAA Traditional guarantees your principal and a minimum annual interest rate. The guaranteed minimum interest rate is 3.00%, and is effective while the funds remain in the contract. The account also offers the opportunity for additional amounts in excess of the guaranteed minimum interest rate. When declared, additional amounts remain in effect for the twelve-month period that begins each March 1 for accumulating annuities and January 1 for payout annuities. Additional amounts are not guaranteed for the future years. All guarantees are subject to TIAA's claims paying ability. TIAA Traditional is designed primarily to help meet your long-term retirement income needs; it is not a short-term savings vehicle. Therefore, some contracts require that benefits are paid in installments over time and/or may impose surrender charges on certain withdrawals. TIAA has rewarded participants who save in contracts where benefits are paid in installments over time instead of in an immediate lump-sum by crediting higher interest rates, typically 0.50% to 0.75% higher. Higher rates will lead to higher account balances and more retirement income for you. For Retirement Annuity (RA) contracts, lump-sum withdrawals are not available from the TIAA Traditional account. Subject to the terms of your plan, all withdrawals and transfers from the account must be paid in ten annual installments. After termination of employment additional income options may be available including income for life, interest-only payments, and IRS required minimum distribution payments.</p>
TIAA Traditional-Supplemental Retirement Annuity	5.50%	Through 02/28/2023	<p>An annual plan servicing credit of 0.09% is credited on a quarterly basis. The current rate shown applies to premiums remitted during the month of November 2022 and will be credited through 2/28/2023. This rate is subject to change in subsequent months. Up-to-date rate of return information is available on your plan-specific website noted above or at 800-842-2733. TIAA Traditional guarantees your principal and a minimum annual interest rate. The guaranteed minimum interest rate is 3.00%, and is effective while the funds remain in the contract. The account also offers the opportunity for additional amounts in excess of the guaranteed minimum interest rate. When declared, additional amounts remain in effect for the twelve-month period that begins each March 1 for accumulating annuities and January 1 for payout annuities. Additional amounts are not guaranteed for the future years. All guarantees are subject to TIAA's claims paying ability. For Supplemental Retirement Annuity (SRA) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals and transfers are available from the TIAA Traditional account without any restrictions or charges. After termination of employment additional income options may be available including income for life, income for a fixed period of time, and IRS required minimum distribution payments.</p>

Part B. Annuity Information

The information below focuses on the annuity options under the plan. Annuities are insurance contracts that allow you to receive a guaranteed stream of payments at regular intervals, usually beginning when you retire and lasting for your entire life. Annuities are issued by insurance companies. Guarantees of an insurance company are subject to its long-term financial strength and claims-paying ability.

TIAA Traditional Annuity Lifetime Income Option

OBJECTIVES / GOALS

To provide a guaranteed stable stream of income for your life and, if you choose, the life of an annuity partner. A TIAA Traditional Annuity provides income stability by providing a minimum guaranteed interest rate as well as the potential for additional interest. TIAA Traditional can be part of a diversified retirement portfolio that may include stocks (equities), bonds (fixed income), real estate, and money market investments. Electing a life annuity is just one of many payout options available under the TIAA Traditional Annuity.

PRICING FACTORS

The amount of your lifetime income is dependent upon many factors including:

- The type of annuity selected (single life, joint life, with or without guaranteed minimum periods), and your selection of either the standard or graded benefit method.
- The amount of accumulations converted to a life annuity.
- Your age and, if applicable, the age of your annuity partner.
- The projected returns of the TIAA Traditional Annuity.

Under no circumstances will you receive less than the guaranteed amount of income required under the annuity contracts. To learn more about investments that offer lifetime annuity income, please access the web link provided in the Performance and Fee Information section.

RESTRICTIONS / FEES

- You may not begin a one-life annuity after you attain age 90, nor may you begin a two-life annuity after you or your annuity partner attains age 90.
- Subject to contract terms, if your accumulation is less than \$5,000 on your annuity starting date, TIAA may choose instead to pay your accumulations to you in a single sum.
- If your TIAA annuity payment would be less than \$100, TIAA has the right to change the payment frequency which would result in a payment of \$100 or more.
- Once you have elected a lifetime annuity, your election is irrevocable.

TIAA Real Estate and CREF Variable Annuity Lifetime Income Options

OBJECTIVES / GOALS

To provide a variable stream of income for your life and, if you choose, the life of an annuity partner. This lifetime annuity provides a variable income that you cannot outlive. A variable annuity can be part of a diversified retirement portfolio that may include guaranteed, stocks (equities), bonds (fixed income), real estate, and money market investments. Electing a life annuity is just one of many payout options available.

PRICING FACTORS

The amount of your lifetime income is dependent upon many factors including:

- The type of annuity selected (single life, joint life, with or without guaranteed minimum periods).
- The amount of accumulations converted to a life annuity.
- Your age and, if applicable, the age of your annuity partner.
- The investment performance of the variable annuity account your annuity is based upon.

Variable annuity accounts don't guarantee a minimum income. Income fluctuates based on market performance and is directly tied to the accounts' investment returns. A 4% annual investment return is assumed. Generally, if the actual return in a given year is greater than 4% the amount of annuity income will increase; if it is less than 4%, the income will decrease. To learn more about investments that offer lifetime annuity income, please access the web link provided in the Performance and Fee Information section.

RESTRICTIONS / FEES

- You may not begin a one-life annuity after you attain age 90, nor may you begin a two-life annuity after you or your annuity partner attains age 90.
- Subject to contract terms, if your accumulation is less than \$5,000 on your annuity starting date, TIAA may choose instead to pay your accumulations to you in a single sum.
- If your annuity payment would be less than \$100, TIAA has the right to change the payment frequency which would result in a payment of \$100 or more.
- Once you have elected a lifetime annuity, your election is irrevocable.
- Upon annuitization of CREF accumulations, the expenses associated with CREF will be the same as the R3 Class regardless of the CREF Class prior to annuitization.

The R3 Class has the lowest expense of all the CREF Classes.

Please visit www.TIAA.org/public/support/help/glossary/index.html for a glossary of investment terms relevant to the investment options under this plan.

Fees and expenses are only one of many factors to consider when you decide to invest in an option. You may also want to think about whether an investment in a particular option, along with your other investments, will help you achieve your financial goals. The cumulative effect of fees and expenses can substantially reduce the growth of your retirement savings. Visit the Department of Labor's website for an example showing the long-term effect of fees and expenses at www.dol.gov/sites/default/files/ebsa/about-ebsa/our-activities/resource-center/publications/a-look-at-401k-plan-fees.pdf.

TIAA important additional information:

The returns quoted represent past performance, which is no guarantee of future results. Returns and the principal value of your investment will fluctuate. Current performance may be higher or lower than that shown, and you may have a gain or a loss when you redeem your investments. Expense ratios shown are based on the most recent information available, but may not reflect all updates. Please consult the most recent prospectus or offering document for more detailed information.

Variable return investments (mutual funds and/or variable annuities) are offered through your plan sponsor's retirement plan. Funds are offered at that day's net asset value (NAV), and the performance is displayed accordingly. Performance at NAV does not reflect sales charges, which are waived through your retirement plan. If included, the sales charges would have reduced the performance as quoted.

If a variable return investment option includes performance for periods beyond its inception date that performance is based on the performance of an older share class of the investment option. Such performance has not been restated to reflect expense differences between the two classes. If expense differences had been reflected, performance for these periods would be lower or higher than stated.

Expense ratios shown are based on the most recent information available, but may not reflect all updates and may differ slightly from the prospectus due to rounding. Please consult the most recent prospectus or offering document for more detailed information.

TIAA provides information on restrictions on record kept investment options, as well as performance and product information for all proprietary investment options. TIAA assumes no responsibility for damages or losses arising from the use of such information, and has not independently verified the accuracy or completeness of such information.

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The Morningstar Category classifies an investment option based on its investment style as measured by underlying portfolio holdings (portfolio statistics and compositions over the past three years). If the investment option is new and has no portfolio, Morningstar estimates where it will fall before assigning a more permanent category. When necessary, Morningstar may change a category assignment based on current information.

There are inherent risks in investing in variable return investments including loss of principal. Please read the prospectus and carefully consider the investment objectives, risks, charges and expenses before investing.

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