
SEPTEMBER 29, 2016

**AGENDA ITEM 6
ACTION ITEM**

SCHOLARSHARE INVESTMENT BOARD

Resolution to Approve Changes to the ScholarShare Statement of Investment Policy

Recommendation

Pension Consulting Alliance, LLC (PCA) and ScholarShare Investment Board (SIB or Board) staff recommend that the Board adopt Resolution No. 2016-06 approving changes to the ScholarShare Statement of Investment Policy (Investment Policy).

Background

SIB staff and PCA reviewed the Investment Policy, including, but not limited to, the Plan's purpose and objectives; the responsibilities of the Board, the investment consultant and the program manager; the program policies; and the addendums outlining the Plan's portfolios, underlying funds, and benchmarks. As a result, SIB staff and PCA recommend minor revisions to the Investment Policy to reflect a change in the benchmark to the TIAA-CREF Inflation-Linked Bond Fund. The proposed changes are outlined in the redline version of the Investment Policy included as an attachment to PCA's memo (Exhibit A).

Pending Board approval, the revised Investment Policy will take effect immediately.

Presenters

Stanley Zeto, Deputy Executive Director, ScholarShare Investment Board
Eric White, Principal, Pension Consulting Alliance, LLC

RESOLUTION NO. 2016-06

**RESOLUTION OF THE SCHOLARSHARE INVESTMENT BOARD
RELATING TO THE APPROVAL OF CHANGES TO THE
SCHOLARSHARE STATEMENT OF INVESTMENT POLICY**

WHEREAS, the ScholarShare Investment Board (the “SIB” or “Board”) was created under Education Code section 69980 et seq. (the “Golden State ScholarShare Trust Act” or “Act”);

WHEREAS, Section 69984(a)(2)(B) of the Act provides that the Board shall annually prepare and adopt a written statement of investment policy and shall consider the statement of investment policy and any changes in the investment policy at a public hearing;

WHEREAS, the Board adopted the Golden State ScholarShare College Savings Trust Statement of Investment Policy (the “Investment Policy”) to define the program’s investment objectives and establish policies and procedures to meet investment objectives in a prudent manner; and

WHEREAS, the SIB staff and Board’s investment consultant (the “Consultant”) have reviewed the Investment Policy and are recommending minor revisions that include updates to a fund’s benchmark;

NOW, THEREFORE, BE IT RESOLVED, that the Board hereby approves the changes to the Investment Policy as recommended by SIB staff and the Consultant and as shown in the attachment to the Consultant’s memo dated August 29, 2016.

BE IT FURTHER RESOLVED, that this Resolution becomes effective upon its adoption by the Board.

Attest:

Chairperson

Date of Adoption: _____

Date: August 29, 2016
To: ScholarShare Investment Board (SIB)
From: Pension Consulting Alliance, LLC (PCA)
CC: Eric White, CFA – PCA; Kay Ceserani – PCA
RE: **Recommended Changes to the ScholarShare Statement of Investment Policy**

Recommendation

PCA has reviewed the Investment Policy Statement (Policy) for the ScholarShare College Savings Plan in light of a benchmark change for the T-C Inflation-Linked Bond fund effective January 1, 2016. TIAA elected to change the benchmark from the Barclays US TIPS Index to the Barclays US TIPS 1-10 Year Index. TIAA's stated reason for this change is that the new benchmark better aligns with how the Fund invests its assets. PCA concludes that the new benchmark is more closely aligned with the philosophy and process of the Fund than the prior benchmark. As such, **PCA recommends the ScholarShare Statement of Investment Policy be revised to reflect the change of the T-C Inflation-Linked Bond fund's benchmark to the Barclays US TIPS 1-10 Year Index.**

Discussion

Effective January 1, 2016, TIAA changed the benchmark of the T-C Inflation-Linked Bond fund from the Barclays US TIPS Index to the Barclays US TIPS 1-10 Year Index. TIAA prospectus for the fund states that the, "Fund adopted the new benchmark primarily because the average maturity of the former benchmark has lengthened over time and the new benchmark is now more consistent with the Fund's desired average maturity and maturity of those funds within the Fund's competitive universe".

PCA has reviewed the Fund's characteristics relative to the two benchmarks. We find the new benchmark to be significantly more aligned with the Fund's strategy. Given the fact that both the fund and benchmark are comprised of government securities, interest rate risk drives the relative performance between the Fund and the benchmark. Currently the duration (measure of interest rate risk) of the Fund is 5.7 years versus 5.5 years for the new benchmark and over 8 years for the old benchmark. Given the duration mismatch between the old benchmark and the close proximity to the new benchmark PCA concludes the new benchmark is the appropriate benchmark for the fund.

DISCLOSURES: This document is provided for informational purposes only. It does not constitute an offer of securities of any of the issuers that may be described herein. Information contained herein may have been provided by third parties, including investment firms providing information on returns and assets under management, and may not have been independently verified. The past performance information contained in this report is not necessarily indicative of future results and there is no assurance that the investment in question will achieve comparable results or that the Firm will be able to implement its investment strategy or achieve its investment objectives. The actual realized value of currently unrealized investments (if any) will depend on a variety of factors, including future operating results, the value of the assets and market conditions at the time of disposition, any related transaction costs and the timing and manner of sale, all of which may differ from the assumptions and circumstances on which any current unrealized valuations are based.

Neither PCA nor PCA's officers, employees or agents, make any representation or warranty, express or implied, in relation to the accuracy or completeness of the information contained in this document or any oral information provided in connection herewith, or any data subsequently generated herefrom, and accept no responsibility, obligation or liability (whether direct or indirect, in contract, tort or otherwise) in relation to any of such information. PCA and PCA's officers, employees and agents expressly disclaim any and all liability that may be based on this document and any errors therein or omissions therefrom. Neither PCA nor any of PCA's officers, employees or agents, make any representation of warranty, express or implied, that any transaction has been or may be effected on the terms or in the manner stated in this document, or as to the achievement or reasonableness of future projections, management targets, estimates, prospects or returns, if any. Any views or terms contained herein are preliminary only, and are based on financial, economic, market and other conditions prevailing as of the date of this document and are therefore subject to change.

The information contained in this report may include forward-looking statements. Forward-looking statements include a number of risks, uncertainties and other factors beyond the control of the Firm, which may result in material differences in actual results, performance or other expectations. The opinions, estimates and analyses reflect PCA's current judgment, which may change in the future.

Any tables, graphs or charts relating to past performance included in this report are intended only to illustrate investment performance for the historical periods shown. Such tables, graphs and charts are not intended to predict future performance and should not be used as the basis for an investment decision.

All trademarks or product names mentioned herein are the property of their respective owners. Indices are unmanaged and one cannot invest directly in an index. The index data provided is on an "as is" basis. In no event shall the index providers or its affiliates have any liability of any kind in connection with the index data or the portfolio described herein. Copying or redistributing the index data is strictly prohibited.

The Russell indices are either registered trademarks or tradenames of Frank Russell Company in the U.S. and/or other countries.

The MSCI indices are trademarks and service marks of MSCI or its subsidiaries.

Standard and Poor's (S&P) is a division of The McGraw-Hill Companies, Inc. S&P indices, including the S&P 500, are a registered trademark of The McGraw-Hill Companies, Inc.

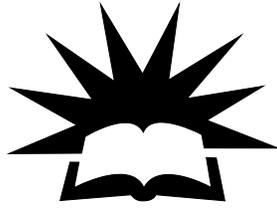
CBOE, not S&P, calculates and disseminates the BXM Index. The CBOE has a business relationship with Standard & Poor's on the BXM. CBOE and Chicago Board Options Exchange are registered trademarks of the CBOE, and SPX, and CBOE S&P 500 BuyWrite Index BXM are servicemarks of the CBOE. The methodology of the CBOE S&P 500 BuyWrite Index is owned by CBOE and may be covered by one or more patents or pending patent applications.

The Barclays Capital indices (formerly known as the Lehman indices) are trademarks of Barclays Capital, Inc.

The Citigroup indices are trademarks of Citicorp or its affiliates.

The Merrill Lynch indices are trademarks of Merrill Lynch & Co. or its affiliates.

FTSE is a trademark of the London Stock Exchange Group companies and is used by FTSE under license. All rights in the FTSE indices and/or FTSE ratings vest in FTSE and/or its licensors. No further distribution of FTSE data is permitted with FTSE's express written consent.



Golden State ScholarShare College Savings Trust

Statement of Investment Policy

~~December 10, 2015~~ September 29, 2016

PROGRAM PURPOSE

In accordance with Section 529 of the Internal Revenue Code of 1986, as amended, the Golden State ScholarShare College Savings Trust (the "Trust") offers a qualified tuition program (the "Program") to California families. The purpose of the Program is to help California families save for higher education on a tax advantaged basis.

PURPOSE OF THIS STATEMENT

This Investment Policy Statement ("Policy") defines the Program's investment objectives and establishes policies and procedures so that investment objectives can be met in a prudent manner. This Policy is intended to:

- Articulate objectives of the Program and its investment portfolio
- Identify roles of specific entities having a fiduciary responsibility to the Program
- Define policies regarding permitted investments, benchmarks, and asset allocation strategies
- Describe current investment options available to holders of individual savings accounts ("Accounts") established as part of the Program
- Recognize the Governor's Scholarship Programs (GSP) as a separate Program of the Trust

PROGRAM OBJECTIVES

The primary goal of the Program is to provide eligible participants with investment options ("Investment Portfolios") for investment of Accounts in the Trust that

- Meet the various educational saving needs of Account Owners and Program Beneficiaries,
- Encompass a range of risk and return opportunities,
- Allow for a rate of return commensurate with an appropriate level of risk to meet the investment goals of that Portfolio, and
- Are appropriate for college savings.

In order to achieve this objective, Program Investment Portfolios are to be comprised of Underlying Investments (mutual funds ("Funds"), individual securities, insurance agreements, etc.) as outlined in this document ("Underlying Investments" or "Funds").

GOVERNOR'S SCHOLARSHIP PROGRAMS

A separate program, the GSP, also invests in assets of the Trust and, in accordance with California State statutes must be invested in a guaranteed funding agreement.

RESPONSIBILITIES

ScholarShare Investment Board

The ScholarShare Investment Board (the “SIB” or the “Board”) will conduct their responsibilities as a trustee and fiduciary of the Program. The SIB may delegate functions that a prudent entity acting in a like capacity and familiar with those matters could properly delegate under the circumstances.

Under this Policy, the SIB will generally be responsible for the following:

- Developing a sound and consistent Policy
- Reviewing and refining the Policy as needed
- Employing qualified investment managers, custodians, and investment advisors
- Reviewing and approving investment proposals by Program manager(s), including an annual review of asset allocation strategies and age band changes
- Approving procedures for monitoring investment performance criteria and other investment related contractual obligations of the Program Manager and other vendors
- Monitoring adherence to policies, procedures, and criteria as set forth in this document and in Program Fund Monitoring Procedures and Criteria.

Program Manager(s)

The Board has determined that it is necessary and reasonable to retain a professional investment manager to invest the assets of the Program (the “Program Manager”). Under this Policy, the Program Manager(s) and its (their) affiliates and subcontractors will generally be responsible for the following:

- Overseeing Investment Portfolios and their Underlying Investments such that performance is consistent with performance criteria as shown in the Investment Performance Criteria Schedules of the Monitoring Procedures and Criteria
- Reviewing, analyzing, and recommending asset allocation guidelines and any changes in age bands annually submitting a proposal for SIB review and approval
- Implementing SIB investment policies, including asset allocation
- Investing, monitoring, and rebalancing the asset allocation of Investment Portfolios to ensure adherence to target allocations on an as needed basis
- Providing monthly and quarterly reports as contractually obligated or directed by Law, the Board, or the Executive Director

Investment Consultant(s)

The SIB has determined that it is necessary and reasonable to retain a professional investment consultant to advise the Board with regard to the investments of the Trust (the “Investment Consultant”). Under this Policy, the Investment Consultant(s) will generally be responsible for the following:

- Providing general and/or specific investment advice to the SIB and staff
- Making recommendations on investment policies, objectives, and strategies, including asset allocation
- Monitoring of Program Managers and their investment performance

PROGRAM POLICIES

The SIB will pursue the following policies to allow the Program to meet Program Objectives.

Permitted Investments

With the exception of GSP, there are no statutory restrictions on the types of investments that can be made by the Trust. The money in the Trust is not California state money and, therefore, not subject to the statutory and constitutional restrictions that apply to state funds. Thus, the universe of possible investment options for the Trust includes: equities (both domestic and foreign); real estate; corporate and government debt instruments (of any maturity); commodities; FDIC-insured bank products; currency and any other investment vehicle utilized in the marketplace. However, all of the assets in the Program (except for those held in one of the two Funding Agreements) will be allocated to Investment Portfolios which will initially be invested in one or more Funds. Since all mutual fund assets are subject to the provisions of the Investment Company Act of 1940 (the "1940 Act"), the Program's assets (excluding Funding Agreement assets) must be managed in a manner consistent with the 1940 Act. The SIB has further limited investments in the Underlying Investments of the Program to the following broad asset categories (collectively known as "Permitted Investments"):

- Domestic equities and international equities
- Medium and long-term debt obligations of domestic corporations
- U.S. government and government sponsored entity debt obligations
- Real estate commingled funds that invest in publicly traded real estate securities
- Money market instruments, cash, and money market mutual funds that are registered in the U.S. and denominated in U.S. dollars
- Investments in mutual funds, but limited to existing, rated mutual funds, which are registered in the United States and denominated in U.S. dollars
- Insurance agreements
- FDIC-insured bank products

When evaluating current and potential Funds and proxy voting proposals, the SIB cares greatly about geopolitical and social issues as they relate to investment options selected for plan participants. The following is a partial, though not exhaustive list of such issues:

- Respect for Human Rights
- Respect for Civil Liberties
- Respect for Political Rights
- Discrimination Based on Race, Sex, Disability, Language or Social Status
- Worker Rights
- Environmental
- War, Conflicts, and Acts of Terrorism

While funds will not be selected, rejected, or divested from based solely on the basis of the aforementioned factors, the SIB will give serious consideration to such issues when reviewing and approving investments for the plan.

Benchmarks

The SIB shall evaluate investment performance relative to an assigned benchmark. The Program Manager shall at all times seek to provide performance consistent with performance criteria as shown in the Investment Performance Criteria Schedules of the Monitoring Procedures and Criteria. When evaluating investment performance, a benchmark will be used to provide relative results with the following stipulations:

- Evaluations shall be against an industry standard benchmark
- Program Investment Portfolios are to be displayed against an appropriate benchmark or policy benchmark as outlined in the Program Fund Monitoring Procedures and Criteria
- All Underlying Investments and Investment Portfolios shall be considered against their respective benchmarks over an identical time period

Asset Allocation

The SIB will pursue asset allocation strategies to allow the Program to meet Program objectives. The Program Manager is responsible for establishing asset allocation guidelines, which SIB must approve, and maintaining these allocations within approved levels. When implementing new asset allocation guidelines or when rebalancing Investment Portfolios, the Program Manager will have a commercially reasonable period of time to complete the task.

Normally, the Program Manager will not exceed three percent (3%) above or below the base percentages of the Underlying Investment's assets included in the asset allocation guidelines of each Portfolio (see Addendum). In the event of unusual or cataclysmic market movements that result in a violation of the three percent target range, a temporary target range of five (5%) will be in effect. The Program Manager will make substantial and prudent efforts to reallocate assets within the normal 3% target range in a commercially reasonable amount of time. The Program Manager will inform the SIB within a period of one (1) business day in the event that there is a cataclysmic event and it is moving to a 5% target range or if there is a 3% or 5% range violation. The Chair or the Chair's designee and Program Manager will monitor the event and report any violations of this guideline to the SIB. If necessary, the Chair or the Chair's designee may issue a written suspension of the guidelines. In this case, the Chair or the Chair's designee will inform the Program Manager and call a public meeting of the entire SIB to confirm whether the suspension is appropriate or rejected. If rejected, the SIB will issue different instructions to the Program Manager to be immediately implemented.

Review of Asset Allocation

The SIB shall monitor the asset allocation of the Program's Investment Portfolios relative to approved allocations. Within 30 days following the close of each quarter, the Program Manager will provide to the SIB an exception report showing the Program Manager's non-compliance with target allocations, if any, as designated in the Addendum to this document. In addition, the Program Manager will meet with the Board on a periodic basis to review actual asset allocations of Investment Portfolios.

ADDENDUM 1

While the investment parameters for all of the Investment Portfolios offered in the Program are approved by the SIB, Account Owners bear the risk of investment results derived from the selected Investment Portfolio specifically and the Program generally. The appropriate Investment Portfolio (or Portfolios) for each Account Owner is (are) a function of multiple factors, including age (of Beneficiary), income, length of time before money is used, and tolerance for investment risk. Investment Portfolios for the Plan are presented below by investment management style (active then passive). A list of Funds that may be used in each Portfolio and their respective benchmarks and asset classes may be found in Addendum 2.

ACTIVE PORTFOLIOS

Active portfolios are comprised of underlying investments, which are managed using active decision-making processes. These active decisions are intended to provide long-term performance beyond that of a benchmark or index. Actively-managed mutual funds have more relative risk due to different exposures relative to the benchmark.

Active Age-Based Portfolio

The Active Age-Based Portfolio seeks to match the investment objective and level of risk to the investment horizon by taking into account the Beneficiary's current age and the number of years before the Beneficiary turns 18 and is expected to enter college. Depending on the Beneficiary's age, allocations to the Active Age-Based Portfolio will be placed in one of nine Age Bands, each of which has a different investment objective and investment strategy. The Age Bands for younger Beneficiaries seek a favorable long-term return by investing in Underlying Funds that invest primarily in equity securities, which have a higher level of risk, but greater potential for returns than more conservative investments. As a Beneficiary nears college age, the Age Bands allocate less to Underlying Funds that invest in equity securities and allocate more heavily to Underlying Funds that invest in fixed-income securities and a Funding Agreement to preserve capital.

As the Beneficiary ages, assets in the Account that are attributable to the Active Age-Based Portfolio are moved from one Age Band to the next on the first "Rolling Date" following the Beneficiary's fifth, ninth, eleventh, thirteenth, fifteenth, sixteenth, seventeenth, and eighteenth birthdays. The Rolling Dates are March 20, June 20, September 20 and December 20 (or the first business day thereafter).

The Active Age-Based Portfolio invests primarily in Underlying Funds that are actively-managed. An actively-managed fund is different from an index fund in that an actively-managed fund is not managed to track its benchmark index, but rather, managed pursuant to the investment style and strategy of its investment adviser. This means that the performance of an actively-managed fund can vary greatly from that of its benchmark index – in either a positive or negative direction. Because of the active management style, actively-managed funds tend to have higher expenses than index funds. See table below for mutual fund allocations by asset class.

**ACTIVELY MANAGED MUTUAL FUND ASSET ALLOCATION PERCENTAGES –
BY ASSET CLASS**
(Target Asset Allocation as Adopted on November 7, 2011*)

Portfolio	Domestic Equity Funds	International Equity Funds	Fixed Income	Real Estate Fund	Short Term/ Cash Equivalent
Ages 0-4	50.40%	24.00%	20.00%	5.60%	0.00%
Ages 5-8	44.10%	21.00%	30.00%	4.90%	0.00%
Ages 9-10	37.80%	18.00%	40.00%	4.20%	0.00%
Ages 11-12	31.50%	15.00%	50.00%	3.50%	0.00%
Ages 13-14	25.20%	12.00%	60.00%	2.80%	0.00%
Age 15	18.90%	9.00%	60.00%	2.10%	10.00%
Age 16	15.75%	7.50%	55.00%	1.75%	20.00%
Age 17	12.60%	6.00%	45.00%	1.40%	35.00%
Ages 18+	9.45%	4.50%	35.00%	1.05%	50.00%

* Target asset allocation will change over time.

Active Diversified Equity Portfolio

This Investment Portfolio seeks to provide a favorable long-term total return by investing primarily in actively-managed equity Underlying Funds. Because of the high exposure to domestic and foreign equities, and the corresponding high degree of risk, this Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments), if they have a long investment horizon and they can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios in the Plan. See table below for mutual fund allocations by asset class.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Domestic Equity Funds	International Equity Funds	Real Estate Fund
63.00%	30.00%	7.00%

Active Growth Portfolio

This Investment Portfolio seeks to provide a favorable long-term total return, mainly from capital appreciation, by investing primarily in a combination of actively-managed equity and fixed-income Underlying Funds. Because of the high exposure to equities, and the corresponding high degree of risk, this Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments), if they have a long investment horizon and they can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios in the Plan. See table below for mutual fund allocations by asset class.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Domestic Equity Funds	International Equity Funds	Fixed Income	Real Estate Fund
44.10%	21.00%	30.00%	4.90%

Active Moderate Growth Portfolio

This Investment Portfolio seeks moderate growth by investing primarily in a combination of actively-managed equity and fixed-income Underlying Funds. The Portfolio seeks a balanced asset allocation and invests a larger portion of its assets in Underlying Funds that invest primarily in fixed-income securities than does the Active Growth Portfolio. Underlying Funds that invest primarily in fixed-income securities have a lower level of risk, but a lower potential for returns than Underlying Funds that invest primarily in equity securities. This Investment Portfolio may be appropriate for investors if they have a medium to short investment horizon and can tolerate a moderate level of risk. See table below for mutual fund allocations by asset class.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Domestic Equity Funds	International Equity Funds	Fixed Income	Real Estate Fund
25.20%	12.00%	60.00%	2.80%

Active Conservative Portfolio

This Investment Portfolio seeks to provide preservation of capital along with a moderate rate of return. Approximately half of the Portfolio invests in actively-managed Underlying Funds that invest primarily in fixed-income securities, which have a lower level of risk and corresponding lower potential for returns than more aggressive investments. The rest of the Portfolio is invested in a Funding Agreement. This Investment Portfolio may be appropriate for investors if they have a medium to short investment horizon and can tolerate a conservative to moderate level of risk. See table below for fund allocations by asset class.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Fixed Income	Short Term/ Cash Equivalent
50.00%	50.00%

Active International Equity Portfolio

This Investment Portfolio seeks to provide a favorable long-term total return by investing in actively-managed international equity Underlying Funds. Because of the high exposure to foreign equity investments, and the corresponding high degree of risk, this Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments) or they have a long investment horizon and they can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios offered by the Plan.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

International Equity Fund
100.00%

Active Diversified Fixed Income Portfolio

This Investment Portfolio seeks to provide preservation of capital along with a moderate rate of return by investing primarily in actively-managed Underlying Funds that invest in a diversified mix of fixed-income investments. This Investment Portfolio may be appropriate for investors if they have a medium-term investment horizon and can tolerate a moderate level of risk.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Fixed Income
100.00%

Social Choice Portfolio

This Investment Portfolio seeks to provide a favorable long-term total return. The Social Choice Portfolio invests 100% of its assets in the TIAA-CREF Social Choice Equity Fund, which invests primarily in equity securities of companies that meet certain social criteria, such as product safety, corporate citizenship, human rights and environmental performance. Because of the high exposure to domestic and foreign equity investments, and the corresponding high degree of risk, this Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments) or you have a long investment horizon and they can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios offered by the Plan.

PASSIVE PORTFOLIOS

Passive portfolios are comprised of underlying mutual funds, which are managed using passive decision-making processes that are generally less expensive than active management. Decisions are intended to provide long-term performance similar to that of a benchmark or index. Passively-managed mutual funds often have low relative risk due to highly similar exposures relative to the benchmark. On an absolute basis, however, passive (or index) mutual funds can have more or less risk than actively managed mutual funds.

Passive Age-Based Portfolio

The Passive Age-Based Portfolio seeks to match the investment objective and level of risk to the investment horizon by taking into account the Beneficiary's current age and the number of years before the Beneficiary turns 18 and is expected to enter college. Depending on the Beneficiary's age, allocations to the Passive Age-Based Portfolio will be placed in one of nine Age Bands, each of which has a different investment objective and investment strategy. The Age Bands for younger Beneficiaries seek a favorable long-term return by investing in Underlying Funds that invest primarily in equity securities, which have a higher level of risk, but greater potential for returns than more conservative investments. As a Beneficiary nears college age, the Age Bands allocate less to Underlying Funds that invest in equity securities and allocate more heavily to Underlying Funds that invest in fixed-income securities and a Funding Agreement to preserve capital.

As the Beneficiary ages, assets in the Account that are attributable to the Passive Age-Based Portfolio are moved from one Age Band to the next on the first “Rolling Date” following the Beneficiary’s fifth, ninth, eleventh, thirteenth, fifteenth, sixteenth, seventeenth, and eighteenth birthdays. The Rolling Dates are March 20, June 20, September 20 and December 20 (or the first business day thereafter).

The Passive Age-Based Portfolio invests primarily in Underlying Funds that are index funds. An index fund is managed to track a specific securities index that the fund uses as a benchmark. The Passive Age-Based Portfolio also invests in certain other Underlying Funds (the TIAA-CREF Inflation-Linked Bond Fund and the TIAA-CREF High Yield Fund) and a Funding Agreement. Thus, although a majority of the Underlying Funds in which this Portfolio invests are passively-managed, it does not invest exclusively in passively-managed Underlying Funds (see table below).

**PASSIVELY MANAGED MUTUAL FUND ASSET ALLOCATION PERCENTAGES –
BY ASSET CLASS**

(Target Asset Allocation as Adopted on November 7, 2011*)

Portfolio	Domestic Equity Fund	International Equity Funds	Fixed Income	Real Estate Fund	Short Term/ Cash Equivalent
Ages 0-4	50.40%	24.00%	20.00%	5.60%	0.00%
Ages 5-8	44.10%	21.00%	30.00%	4.90%	0.00%
Ages 9-10	37.80%	18.00%	40.00%	4.20%	0.00%
Ages 11-12	31.50%	15.00%	50.00%	3.50%	0.00%
Ages 13-14	25.20%	12.00%	60.00%	2.80%	0.00%
Age 15	18.90%	9.00%	60.00%	2.10%	10.00%
Age 16	15.75%	7.50%	55.00%	1.75%	20.00%
Age 17	12.60%	6.00%	45.00%	1.40%	35.00%
Ages 18+	9.45%	4.50%	35.00%	1.05%	50.00%

* Target asset allocation will change over time.

Passive Diversified Equity Portfolio

This Investment Portfolio seeks to provide a favorable long-term total return, mainly from capital appreciation, by investing in Underlying Funds that are primarily equity index funds. Because of the high exposure to domestic and foreign equities, and the corresponding high degree of risk, this Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments), if they have a long investment horizon and you can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios in the Plan (see table below).

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Domestic Equity Fund	International Equity Funds	Real Estate Fund
63.00%	30.00%	7.00%

Passive Growth Portfolio

This Investment Portfolio seeks to provide a favorable long-term total return, mainly from capital appreciation, by investing in Underlying Funds that are primarily equity index funds. The Portfolio seeks to invest a relatively small percentage of assets to Underlying Funds that invest primarily in fixed income securities. Because of the high exposure to domestic and foreign equities, and the corresponding high degree of risk, this Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments), if they have a long investment horizon and they can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios in the Plan (see table below).

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Domestic Equity Fund	International Equity Funds	Fixed Income	Real Estate Fund
44.10%	21.00%	30.00%	4.90%

Passive Moderate Growth Portfolio

This Investment Portfolio seeks moderate growth by investing primarily in a combination of equity and fixed-income Underlying Funds. The equity Underlying Funds in which the Portfolio invests are index funds and the Portfolio invests in a combination of actively-managed and index funds with respect to its investments in fixed-income Underlying Funds. The Portfolio seeks a balanced asset allocation and invests a larger portion of its assets in Underlying Funds that invest primarily in fixed-income securities than does the Active Growth Portfolio. Underlying Funds that invest primarily in fixed-income securities have a lower level of risk, but a lower potential for returns than Underlying Funds that invest primarily in equity securities. This Investment Portfolio may be appropriate for investors if they have a medium to short investment horizon and can tolerate a moderate level of risk (see table below).

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Domestic Equity Fund	International Equity Funds	Fixed Income	Real Estate Fund
25.20%	12.00%	60.00%	2.80%

Passive Conservative Portfolio

This Investment Portfolio seeks to provide preservation of capital along with a moderate rate of return. Approximately half of the Portfolio invests in active and index Underlying Funds that invest primarily in fixed-income securities, which have a lower level of risk and corresponding lower potential for returns than more aggressive investments. The rest of the Portfolio is invested in a Funding Agreement (see table below). This Investment Portfolio may be appropriate for investors if they have a medium to short investment horizon and can tolerate a conservative to moderate level of risk.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Fixed Income	Short Term/ Cash Equivalent
50.00%	50.00%

Index International Equity Portfolio

This Investment Portfolio seeks to provide a favorable long-term total return, mainly from capital appreciation, by investing in international equity index Underlying Funds. Because of the high exposure to foreign equities, and the corresponding high degree of risk, this Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments), if they have a long investment horizon and they can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios in the Plan.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

International Equity Fund
100.00%

Passive Diversified Fixed Income Portfolio

This Investment Portfolio seeks to provide preservation of capital along with a moderate rate of return by investing primarily in Underlying Funds that invest in a diversified mix of fixed-income investments. The majority of the Portfolio is invested in an Underlying Fund that is an index fund. This Investment Portfolio may be appropriate for investors if they have a medium to short investment horizon and can tolerate a moderate level of risk.

MUTUAL FUND ASSET ALLOCATION PERCENTAGES – BY ASSET CLASS

Fixed Income
100.00%

The Individual Fund Portfolios

These Investment Portfolios allow investors to choose a passively-managed mutual fund from the following list of offerings:

- Index U.S. Large Cap Equity Portfolio
This Investment Portfolio seeks to provide a favorable long-term total return. The Index U.S. Large Cap Equity Portfolio invests 100% of its assets in the TIAA-CREF S&P 500 Index Fund, which invests primarily in a portfolio of equity securities of large domestic companies selected to track U.S. equity markets based on a market index. This Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments) or they have a long investment horizon and they can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios offered by the Plan.

- Index Bond Portfolio
This Investment Portfolio seeks to provide preservation of capital along with a moderate rate of return from interest income and capital appreciation. The Index Bond Portfolio invests 100% of its assets in the TIAA-CREF Bond Index Fund, which employs a “passive management” – or indexing – strategy and seeks to match the total return of the Barclays Capital U.S. Aggregate Bond Index. This Investment Portfolio may be appropriate for investors if they have a medium to short investment horizon and can tolerate a moderate level of risk.
- Index U.S. Equity Portfolio
This Investment Portfolio seeks to provide favorable long-term growth, mainly from capital appreciation. The Index U.S. Equity Portfolio invests 100% of its assets in the TIAA-CREF Equity Index Fund, which employs a “passive management” – or indexing – strategy and seeks a diversified portfolio selected to track the overall market for common stocks publicly traded in the U.S., as represented by the Russell 3000 index. Because of the high exposure to equity investments, and the corresponding high degree of risk, this Investment Portfolio may be appropriate for investors if they already have substantial college savings from less volatile investments (e.g., fixed-income investments) or they have a long investment horizon and they can tolerate a higher level of risk, or for use in conjunction with other Investment Portfolios offered by the Plan.

These portfolios are designed for people who seek to customize their college investing through participation in a single mutual fund or several mutual funds.

PRINCIPAL PLUS INTEREST PORTFOLIO

Principal Plus Interest Portfolio

This Investment Portfolio seeks to preserve capital and provide a stable return. It may be appropriate for investors if they have a short investment horizon and are looking for a conservative investment with a low level of risk. The assets in this Investment Portfolio are allocated to a Funding Agreement issued by TIAA-CREF Life to the Board on behalf of the Plan, which is the policyholder under the agreement. The Funding Agreement provides for a return of principal plus a guaranteed rate of interest and allows for the possibility that additional interest may be credited as declared periodically by TIAA-CREF Life. The interest rate guarantee is made to the Board only, and not to Participants or Beneficiaries. The rate of any additional interest is declared in advance for a period of up to 12 months and is not guaranteed for any future periods.

ADDENDUM 2

The Portfolios shall contain the Funds listed with their benchmarks by asset class below.

Active Age-Based Portfolios

Benchmark

Domestic Equity

- T. Rowe Price Institutional Large Cap Growth Fund
- T. Rowe Price Institutional Large Cap Value Fund
- TIAA-CREF Small Cap Equity Fund

Russell 1000 Growth
Russell 1000 Value
Russell 2000

International Equity

- DFA Large Cap International Portfolio
- DFA Emerging Markets Core Equity Portfolio

MSCI World ex US
MSCI Emerging Markets

Fixed Income

- MetWest Total Return Bond Fund
- PIMCO Real Return Fund
- PIMCO Income Fund
- T. Rowe Price Institutional Floating Rate Fund

BC US Aggregate Bond
BC US TIPS
BC US Aggregate Bond
S&P/LSTA Performing Loan

Real Estate

- TIAA-CREF Real Estate Securities Fund

FTSE NAREIT Equity

Short Term/Cash Equivalent

- T-C Life Funding Agreement

N/A

Active Diversified Equity Portfolio

Benchmark

Domestic Equity

- T. Rowe Price Institutional Large Cap Growth Fund
- T. Rowe Price Institutional Large Cap Value Fund
- TIAA-CREF Small Cap Equity Fund

Russell 1000 Growth
Russell 1000 Value
Russell 2000

International Equity

- DFA Large Cap International Portfolio
- DFA Emerging Markets Core Equity Portfolio

MSCI World ex US
MSCI Emerging Markets

Real Estate

- TIAA-CREF Real Estate Securities Fund

FTSE NAREIT Equity

Active Growth Portfolio

Benchmark

Domestic Equity

- T. Rowe Price Institutional Large Cap Growth Fund
- T. Rowe Price Institutional Large Cap Value Fund
- TIAA-CREF Small Cap Equity Fund

Russell 1000 Growth
Russell 1000 Value
Russell 2000

International Equity

- DFA Large Cap International Portfolio
- DFA Emerging Markets Core Equity Portfolio

MSCI World ex US
MSCI Emerging Markets

Fixed Income

- MetWest Total Return Bond Fund
- PIMCO Real Return Fund
- PIMCO Income Fund
- T. Rowe Price Institutional Floating Rate Fund

BC US Aggregate Bond
BC US TIPS
BC US Aggregate Bond
S&P/LSTA Performing Loan

Real Estate

- TIAA-CREF Real Estate Securities Fund

FTSE NAREIT Equity

Active Moderate Growth Portfolio

Domestic Equity

- T. Rowe Price Institutional Large Cap Growth Fund
- T. Rowe Price Institutional Large Cap Value Fund
- TIAA-CREF Small Cap Equity Fund

Benchmark

Russell 1000 Growth
Russell 1000 Value
Russell 2000

International Equity

- DFA Large Cap International Portfolio
- DFA Emerging Markets Core Equity Portfolio

MSCI World ex US
MSCI Emerging Markets

Fixed Income

- MetWest Total Return Bond Fund
- PIMCO Real Return Fund
- PIMCO Income Fund
- T. Rowe Price Institutional Floating Rate Fund

BC US Aggregate Bond
BC US TIPS
BC US Aggregate Bond
S&P/LSTA Performing Loan

Real Estate

- TIAA-CREF Real Estate Securities Fund

FTSE NAREIT Equity

Active Conservative Portfolio

Fixed Income

- MetWest Total Return Bond Fund
- PIMCO Real Return Fund
- PIMCO Income Fund
- T. Rowe Price Institutional Floating Rate Fund

Benchmark

BC US Aggregate Bond
BC US TIPS
BC US Aggregate Bond
S&P/LSTA Performing Loan

Short Term/Cash Equivalent

- T-C Life Funding Agreement

N/A

Active International Equity Portfolio

International Equity

- DFA Large Cap International Portfolio
- DFA Emerging Markets Core Equity Portfolio

Benchmark

MSCI World ex US
MSCI Emerging Markets

Active Diversified Fixed Income Portfolio

Fixed Income

- MetWest Total Return Bond Fund
- PIMCO Real Return Fund
- PIMCO Income Fund
- T. Rowe Price Institutional Floating Rate Fund

Benchmark

BC US Aggregate Bond
BC US TIPS
BC US Aggregate Bond
S&P/LSTA Performing Loan

Social Choice Portfolio

- TIAA-CREF Social Choice Equity Fund

Benchmark

Russell 3000

Passive Age-Based Portfolios

Domestic Equity

- TIAA-CREF Equity Index Fund

International Equity

- TIAA-CREF International Equity Index Fund
- TIAA-CREF Emerging Markets Equity Index Fund

Fixed Income

- TIAA-CREF Bond Index Fund
- TIAA-CREF Inflation-Linked Bond Fund
- TIAA-CREF High Yield Fund

Real Estate

- TIAA-CREF Real Estate Securities Fund

Short Term/Cash Equivalent

- T-C Life Funding Agreement

Benchmark

Russell 3000 TR

MSCI EAFE
MSCI Emerging Markets

BC US Aggregate Bond
BC US TIPS 1-10 Year
BofA ML BB-B US Cash Pay
High Yield Constrained

FTSE NAREIT Equity

N/A

Passive Diversified Equity Portfolio

Domestic Equity

- TIAA-CREF Equity Index Fund

International Equity

- TIAA-CREF International Equity Index Fund
- TIAA-CREF Emerging Markets Equity Index Fund

Real Estate

- TIAA-CREF Real Estate Securities Fund

Benchmark

Russell 3000 TR

MSCI EAFE
MSCI Emerging Markets

FTSE NAREIT Equity

Passive Growth Portfolio

Domestic Equity

- TIAA-CREF Equity Index Fund

International Equity

- TIAA-CREF International Equity Index Fund
- TIAA-CREF Emerging Markets Equity Index Fund

Fixed Income

- TIAA-CREF Bond Index Fund
- TIAA-CREF Inflation-Linked Bond Fund
- TIAA-CREF High Yield Fund

Real Estate

- TIAA-CREF Real Estate Securities Fund

Benchmark

Russell 3000 TR

MSCI EAFE
MSCI Emerging Markets

BC US Aggregate Bond
BC US TIPS 1-10 Year
BofA ML BB-B US Cash Pay
High Yield Constrained

FTSE NAREIT Equity

Passive Moderate Growth Portfolio

Domestic Equity

- TIAA-CREF Equity Index Fund

International Equity

- TIAA-CREF International Equity Index Fund
- TIAA-CREF Emerging Markets Equity Index Fund

Fixed Income

- TIAA-CREF Bond Index Fund
- TIAA-CREF Inflation-Linked Bond Fund
- TIAA-CREF High Yield Fund

Benchmark

Russell 3000 TR

MSCI EAFE
MSCI Emerging Markets

BC US Aggregate Bond
BC US TIPS 1-10 Year
BofA ML BB-B US Cash Pay
High Yield Constrained

Real Estate

- TIAA-CREF Real Estate Securities Fund

FTSE NAREIT Equity

Passive Conservative Portfolio

Fixed Income

- TIAA-CREF Bond Index Fund
- TIAA-CREF Inflation-Linked Bond Fund
- TIAA-CREF High Yield Fund

Benchmark

BC US Aggregate Bond
BC US TIPS 1-10 Year
BofA ML BB-B US Cash Pay
High Yield Constrained

Short Term/Cash Equivalent

- T-C Life Funding Agreement

N/A

Passive International Equity Portfolio

International Equity

- TIAA-CREF International Equity Index Fund
- TIAA-CREF Emerging Markets Equity Index Fund

Benchmark

MSCI EAFE (Net MA)
MSCI Emerging Markets

Passive Diversified Fixed Income Portfolio

Fixed Income

- TIAA-CREF Bond Index Fund
- TIAA-CREF Inflation-Linked Bond Fund
- TIAA-CREF High Yield Fund

Benchmark

BC US Aggregate Bond
BC US TIPS 1-10 Year
BofA ML BB-B US Cash Pay
High Yield Constrained

Index U.S. Large Cap Equity Portfolio

- TIAA-CREF S&P 500 Index Fund

Benchmark

S&P 500

Index U.S Equity Portfolio

- TIAA-CREF Equity Index Fund

Benchmark

Russell 3000 TR

Index Bond Portfolio

- TIAA-CREF Bond Index Fund

Benchmark

BC US Aggregate Bond

Principal Plus Interest Portfolio

- T-C Life Funding Agreement

Benchmark

N/A